

ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

### Annex B2 - Product environmental attributes Notebooks and Tablets

The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Logo
Company name *	Lenovo	the second s
Contact information *	Lenovo Global Environmental Affairs	0001/0
e-mail address	Alvin L Carter	Lenovo
	alcarter@lenovo.com	
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Additional information	The latest version of this document can be found at:	
	http://www.lenovo.com/ecodeclaration	

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.					
Type of product *	Notebook				
Commercial name *	Lenovo Legion Y740-17/Y9000K				
Model number *	81HH, 81JA				
Issue date *	2018/11/28				
Intended market *	🔀 Global 📃 Europe 📃 Asia, Pacific & Japan 📃 Americas 📃 Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

#### About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template: P4.1 – P4.3 Consumable materials P9.1 TEC and Print speed P10.2 - P10.3 Chemical emissions from printing products

P10.2 - P10.3 Consumable materials for printing products.

moderm	umber *	81HH, 81JA Logo	Lon					
lssue da	ite *	2018/11/28	Leno	JVC	<b>D</b>			
Produc	t environ	mental attributes - Legal requirements	Require	men	t me			
Item			Yes	No	n.a.			
P1	Hazardo	ous substances and preparations						
P1.1*	Product	s do comply with current European RoHS Directive. (See legal reference and NOTE B1)	$\square$					
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	$\boxtimes$					
P1.3*	hydrobr trichloro	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1- trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.						
P1.4*	Product terphen	$\boxtimes$						
P1.5*	Product	s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the ontaining at least 48% per mass of chlorine in the SCCP (see legal reference).	e 🔀					
P1.6*	Parts wi (see leg	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/weel al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	< 🔀					
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail contact): ww.lenovo.com/social_responsibility/us/en/environment.html						
P2	Batterie							
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal Information on proper disposal is provided in user manual. (See legal reference)	$\square$					
P2.2*	Batterie referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See lega re)						
P2.3*	Batterie	and accumulators are readily removable. (See legal reference)	$\boxtimes$					
P3	Confor	nity verification & Eco design (ErP)						
P3.1*	The pro The Dec	duct is CE-marked to show conformance with applicable legal requirements (see legal reference). claration of Conformity can be requested at (add link or e-mail address): <a href="http://www.lenovo.com/social_responsibility/us/en/ec_doc_notebooks/">www.lenovo.com/social_responsibility/us/en/ec_doc_notebooks/</a>						
P3.2*	The pro	duct complies with the Eco design requirements for energy-related products, al reference).	$\boxtimes$					
	Require	d information is; given in item P15 or added to this document, available at (add URL): www.lenovo.com/social_responsibility/us/en/datasheets_notebooks/						
P5		t packaging						
P5.1*	Packagi	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium an ent chromium by weight of these together.	nd 🔀					
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature of the material(see legal reference).	s) 🔀					
		duct packaging material is free from ozone depleting substances as specified in the Montreal Protoco	ol 🔀					
P5.3*	(see leg	al reference).						
P5.3*	(see leg Comme							

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model nu	ımber *	81HH, 81JA	Logo		01/0	
Issue dat	te *	2018/11/28		Len	ove	2
Product	environ	mental attributes - Market requirements (See General NOTE GN	below)			
		onmental conscious design	F	Require	ment i	net
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7		Disassembly, recycling				
P7.1*		t have to be treated separately are easily separable				
P7.2*		aterials in covers/housing have no surface coating.			$\square$	
P7.3*		arts > 100 g consist of one material or of easily separable materials.		$\square$		
P7.4*	-	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.		$\square$		
P7.5	Plastic pa	arts are free from metal inlays or have inlays that can be removed with commonly a	vailable tools.			$\boxtimes$
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).			$\square$		
	Product					
P7.7*	Upgradin	g can be done e.g. with processor, memory, cards or drives		$\boxtimes$		
P7.8*	Upgradir	g can be done using commonly available tools		$\square$		
P7.9	Spare pa	rts are available after end of production for: 5 years				
P7.10	Service i	s available after end of production for: 5 years				
	Material	and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
			al type: <b>aluminur</b>	n		
P7.12		n materials of external electrical cables are PVC free.			$\square$	
P7.13		n materials of internal electrical cables are PVC free.			$\square$	
P7.14	weight( polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bi 1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine ir n 25% post-consumer recycled content.	e retardants, and			
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all $\square$ PCBs > 25 g $\boxtimes$ d in IEC 61249-2-21. (See 1NOTE B2)	are low halogen			
P7.16	Flame re Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: >PC+ABS-TD15FR(40) PC+ABS-FR(40)<		$\square$		
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without co A (additive), TBBPA (reactive) (See NOTE B3), Other: <b>DOPO</b> , CAS #: <b>3594</b>		$\square$		
		nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4: <i>FR(40) for DPOP</i>	ents) > 25 g	$\square$		
P7.18	concentr 1. Chemi 2. Chemi	ame retarded plastic parts > 25 g contain the following flame retardant substance ations above 0,1%: cal name: , CAS #: (See NOTE B4) cal name: , CAS #: "	s/preparations in			
	<u>Alt. 2: </u> Ch	cal name: , CAS #: " nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043				
P7.19	assigned	parts > 25 g, flame retardant substances/preparations above 0,1% are used which the following Risk phrases; and Hazard statements:				
P7.20*		ce(s) for these classifications is/are found at (add URL(s)): , (S sumer recycled plastic material content is used in the product (See Note B6):	ee note B5)			
11.20	lfYES;a a) Oft ape or	t least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material contenercentage of total plastic by weight) is $0\%$ . weight of recycled material is $0$ g.	t (calculated as			

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number * Issue date *	81HH, 81JA 2018/11/28	Logo	Lenovo.
Product enviro	nmental attributes - Market requirements (continued)		Requirement met

Item

Requirement met Yes No n.a.

	Material and sub	stance requirements	(continued)		
P7.21*			d in the product (See N	OTE B7):	
	a) Of total plas		es below shall be answ , the biobased plastic m	/	ated as a percentage of
	or				
P7.22*		of the biobased plastic	material is g. less than 0,1 mg/lamp		
1 1.22		specify: Number of la		um mercury content pe	er lamp: mg
P8	Batteries	- <b>·</b> · · ·	•	· ·	
P8.1*	Battery chemical	composition: Li-polym	ler		
P9	Energy consum	ption (See NOTE B8)			
P9.1			ls or energy consumpti		
Energy mo		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *
Peak (On-	max)	230 W	230 W	230 W	Full load
Categor	y NBI2				
Short Idle Enabled	State - WOL	13.690 W	14.430 W	15.610 W	Use for ENERGY STAR V6 registration (P <sub>idle</sub> )
Long Idle Enabled	State - WOL	10.680 W	11.000 W	11.270 W	Use for ENERGY STAR V6 registration (P <sub>idle</sub> )
Off (S5) - V	WOL Enabled	0.412 W	<b>0.417</b> W	<b>0.451</b> W	Use for ENERGY STAR V6 registration(Poff)
Off (S5) - V	NOL Disabled	<b>0.411</b> W	0.416 W	0.449 W	Use for ErP
EPS No-loa (External power s wall outlet but dis	ad supply / charger plugged in the connected from the product.)	<b>0.055</b> W	0.058 W	0.150 W	
PTEC *	ergy Consumption	W	W	W	
ETEC * Annual Ene	ergy Consumption	<b>50.047</b> kWh/year	52.288 kWh/year	55.520 kWh/year	E <sub>TEC</sub> = (8760/1000) x (P <sub>off</sub> x 0.25 + P <sub>sleep</sub> x 0.35 + P <sub>long_Idle</sub> x 0.10+ P <sub>short_Idle</sub> x 0.30)
					ed; P <sub>idle</sub> : Idle State - WOL Enabled
			al Efficiency Marking Pro	otocol) * : VI	
Display res		negapixels			
	e to enter energy s				
P9.2*		••	ion is provided with the	product.	
P9.3	Energy efficiency	class (monitors only):			
P10	Emissions				
<b>D</b> 40.4		V	o ISO 9296 (See NOTE		
P10.1		Mode description			it A-weighted sound power level, <i>L</i> <sub>WA,c</sub> (B)
	Idle	* Idle		* 3.0	
	Operation	* CPU Operating		* 5.0	
	Other mode	Declared A-weighted sour	nd pressure level (dB) $L_{pAl}$	m 27.7 (operator pos	sition desktop – idle)
			nd pressure level (dB) $L_{pAt}$	m 42.1 (operator posi	ition desktop – operating)
	Measured accord	ling to: 🔀 ISO 7779 _	ECMA-74 (only if not covered by	ECMA-74)	

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

NOTE B9 A Guidance document on Acoustic Noise is available;

see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model nu	mber *	81HH, 81JA					Logo	1	-		
Issue dat	e *	2018/11/28						Le	eno	vo	TPR -
Product	environr	nental attribu	tes - Market require	ments (conti	nued)			Re	quire	ment	met
Item									Yes	No	n.a.
		magnetic emiss									
P10.4	Compute program		the requirement for low	frequency elec	tromagnetic fi	elds of the foll	owing volun	tary			$\boxtimes$
P12		mics for compu									
P12.1*	The disp	lay meets the e	gonomic requirements o	of ISO 9241-30	7 for visual dis	play technolog	gies.			$\square$	
P12.2*	The phy	sical input devic	e meets the requirement	ts of ISO 9995	and ISO 9241	-410.				$\square$	
P13	Packagi	ng and docum	entation								
P13.1*	Product	packaging mate packaging mate packaging mate	<b>JI</b> ( <b>)</b>	weight (kg): weight (kg): weight (kg):	0.019						
P13.2*			ackaging is free from P	VC.					$\mathbf{X}$		
P13.3*		duct primary con er recovered fibe	rugated fiberboard pac er content: %	kaging, specify	the containe	d percentage	of minimun	n post-			
P13.4*	Specify I		nd product documentation	on (tick box):							
P13.5	Ùser and		is item if paper docume entation on paper media		e:					$\square$	
	Totally c	hlorine-free									
	-	al chlorine-free							H		
	Process	ed chlorine-free							H		
P14	Volunta	ry programs									
P14.1			equirements of the follow	ving voluntary p	program(s):						
	Eco-labe Eco-labe	el:	Criteria version: Criteria version: Criteria version:	Ē	oate: oate: oate:	Product o Product o Product o	ategory:				
P15	Addition	nal information	(See NOTE B10)								
P9			f specific configuratio								
	informat knowled	ion contained in ge available at t I here is approxi	no representations, guar this document. All inforr he time of completion, a mate and provided for in	nation provided nd supplier sha	by supplier in Il have no obli	this documer gation to upda	t is provided te such info	d based o rmation.	n supp The inf	olier's ormat	ion
P9	See Ene	ergy Star Qualifie	ed Notebooks & Tablet C ov/index.cfm?fuseaction				code=CO				

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

# Lenovo ErP Lot3 Information Sheet - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

#### Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	Lenovo Legion Y740-17/Y9000K	Logo
Model Number	81HH, 81JA	Lenovo
Issue Date	2018/11/28	Lenovo
Additional information		

(d)	Year of manufacture:						
(e)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display.						
(f)	Etec value (kWh) per ErP Lot 3 Categor enable	y and capability adjust	ments applied when <b>a</b>	II discrete graphics o	ards (dGfx) are		
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)		
	Memory over base [GB]			32			
lents sting	Additional internal storage	(Yes / No)	(Yes / No)	Y (Yes / No)	(Yes / No)		
capability adjustments applied during testing	Discrete television tuner	(Yes / No)	(Yes / No)	N (Yes / No)	(Yes / No)		
ability a lied du	Discrete Audio Card	(Yes / No)	(Yes / No)	N (Yes / No)	(Yes / No)		
app	Discrete graphics Card(s) [number / #]	# <u>:</u> (Yes / No)	#: (Yes / No)	N #: (Yes / No)	# <u>:</u> (Yes / No)		
	Category of discrete graphics Card(s)						
sults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)			39.11			
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled						
(g)	Idle state power demand (Watts);		I		13.71		
(h)	Sleep mode power demand (Watts);				0.976		
(i)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);		0.976		
(j)	Off mode power demand (Watts);				0.423		
(k)	Off mode with WOL enabled power dema	and (Watts) (where en	abled);		0.423		
(I)	Internal power supply efficiency at 10 %,	20 %, 50 % and 100 %	% of rated output pow	er (if applicable):			
	10% 20% 50%	100% Avera	ge				
(m)	External power supply efficiency (if appli	cable)*:					
	Average active efficiency: 91.21%,91.93	3%,92.49%,92.58%					
	*internal note: show values for all available external po						
(0)	Minimum number of loading cycles that t	he batteries can withst	and (applies only to n	otebook computers):	300		
(p-1)	Measurement methodology used to dete	rmine information men	tioned in points (I) – ir	nternal PSU efficiency:			

(p-2)		dology used to determine information mentioned in p rogram Requirements for Single Voltage Externa Eligibility Criteria (Version 2.0)						
(p-3)	Measurement metho	dology used to determine information mentioned in p ≥70% of Cmin	points (o) – loading cycles batteries:					
(p-4)		Ieasurement methodology used to determine information mentioned in maximum, idle, sleep, off mode ower as defined in Point P9.1 in the Product IT Eco Declaration: <i>IEC</i> 62623 Sequence of steps for achieving a stable condition with respect to power demand:						
(q)	Sequence of steps for	or achieving a stable condition with respect to power Power on -> Wait 5 minutes ->Stable condition						
(r)	Description of how s	eep and/or off mode was selected or programmed: Begin menu -> Power -> Select sleep or o	off mode					
(s)	Sequence of events off mode:	required to reach the mode where the equipment au	tomatically changes to sleep and/or					
(t)	condition which does	te condition before the computer automatically re- not exceed the applicable power demand requirement	ents for sleep mode (in minutes):	30min				
(u)		• a period of user inactivity in which the compute ver power demand requirement than sleep mode (in		NA				
(v)	Length of time befo	re the display sleep mode is set to activate after	user inactivity (in minutes):	10min				
(w)	Information on the er	nergy-saving potential of power management functio Refer to User Guide	nality:					
(x)	User information on	how to enable the power management functionality: <i>Refer to User Guide</i>						
(z)	Test parameters for	measurements: — test voltage in V and frequency in	Hz, — total harmonic distortion of					
		system, — information and documentation on the in	strumentation, set-up and circuits					
	used for electrical tes	230V50HZ-2%-Edition 2.0, 2011-01, Section 4	<i>I, IEC</i> 62301					
Additio	nal Notebook Batter							
		Battery[ies] not user replaceable	Battery[ies] user replaceable	n/a				
		The battery[ies] in this product cannot be easily replaced by users themselves. <sup>1)</sup>						
Internal	/built-in Battery							
Externa	I/detachable Battery							
Bios Ba	ckup Battery							
Other:								
Addition	al information							
	-1 :- this and the second has a							
кумулаторн	ата[ите] батерия[и] в този п	asily replaced by users themselves. родукт не може да се замени[ят] лесно от самите потребител	пи.					
ýměnu batei	rie/baterií v tomto výrobku by	er sustituidas fácilmente por los propios usuarios. neměli provádět sami uživatelé.						
		teriet/batterierne i dette produkt. können nicht ohne weiteres vom Benutzer selbst ausgetauscht v	verden.					
	saa selle toote akut/akusid ise εc] στο ποοϊόν αυτό δεν μπορ	hõlpsasti asendada. ούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες						
/les batterie		it ne peuvent être facilement remplacée(s) par les utilisateurs et	ıx-mêmes.					
batteria/le	batterie in questo prodotto no	n può/possono essere facilmente sostituita/e dall'utente.						
o gaminio b	nevar nomainīt šā ražojuma a aterijos [baterijų] pats vartoto	jas negali lengvai pakeisti.						
oatterija/bat	teriji f'dan il-prodott ma tistax/	elhasználó nem tudja egyedül egyszerűen kicserélni. jistgħux tiġi/jiġu sostitwita/i mill-utenti stess.						
atteriet [ene]	] i dette produktet kan ikke let							
zytkownik ni	ie może sam w łatwy sposób	wymienić baterii w tym produkcie. ser facilmente substituídas pelos próprios utilizadores.						
ateria (bater	iile) din acest produs nu poat	e (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși.						
ateriu(-ie) v	tomto výrobku nemôže vymie	nai pouzivatei.						

- Baterii/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati. Tämän tuotteen akku [akut] el[vät] ole helposti käyttäjän vaihdettavissa. Det är inte enkelt för kunden att själv byta ut batteriet/batterierna. Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.