

# 1,2-Cyclohexanedicarboxylic acid, dodecyl 2-methylpent-3-yl ester

Inchi:	InChI=1S/C26H48O4/c1-5-7-8-9-10-11-12-13-14-17-20-29-25(27)22-18-15-16-19-23(22)
InchiKey:	QOKKJVWLZSKILP-UHFFFAOYSA-N
Formula:	C26H48O4
SMILES:	CCCCCCCCCCCCOC(=O)C1CCCCC1C(=O)OC(CC)C(C)C
Mol. weight [g/mol]:	424.66

## Physical Properties

Property code	Value	Unit	Source
gf	-287.94	kJ/mol	Joback Method
hf	-1046.15	kJ/mol	Joback Method
hfus	54.53	kJ/mol	Joback Method
hvap	91.13	kJ/mol	Joback Method
log10ws	-7.71		Crippen Method
logp	7.235		Crippen Method
mvol	381.220	ml/mol	McGowan Method
pc	848.01	kPa	Joback Method
rinpol	2877.00		NIST Webbook
rinpol	2877.00		NIST Webbook
tb	960.86	K	Joback Method
tc	1176.44	K	Joback Method
tf	500.24	K	Joback Method
vc	1.460	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1346.89	J/molxK	960.86	Joback Method
cpg	1428.74	J/molxK	1140.51	Joback Method
cpg	1415.87	J/molxK	1104.58	Joback Method
cpg	1401.30	J/molxK	1068.65	Joback Method
cpg	1384.97	J/molxK	1032.72	Joback Method
cpg	1366.85	J/molxK	996.79	Joback Method
cpg	1439.93	J/molxK	1176.44	Joback Method
dvisc	0.0000245	Paxs	960.86	Joback Method

dvisc	0.0000335	Paxs	884.09	Joback Method
dvisc	0.0000486	Paxs	807.32	Joback Method
dvisc	0.0000761	Paxs	730.55	Joback Method
dvisc	0.0001324	Paxs	653.78	Joback Method
dvisc	0.0002670	Paxs	577.01	Joback Method
dvisc	0.0006680	Paxs	500.24	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339449&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339449&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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