

# Isophthalic acid, cyclopentylmethyl dodecyl ester

Inchi:	InChI=1S/C26H40O4/c1-2-3-4-5-6-7-8-9-10-13-19-29-25(27)23-17-14-18-24(20-23)26(28)
InchiKey:	TZXNHISFKFEFQT-UHFFFAOYSA-N
Formula:	C26H40O4
SMILES:	CCCCCCCCCCCCOC(=O)c1cccc(C(=O)OCC2CCCC2)c1
Mol. weight [g/mol]:	416.59

## Physical Properties

Property code	Value	Unit	Source
gf	-160.47	kJ/mol	Joback Method
hf	-784.03	kJ/mol	Joback Method
hfus	56.26	kJ/mol	Joback Method
hvap	94.98	kJ/mol	Joback Method
log10ws	-8.31		Crippen Method
logp	7.111		Crippen Method
mvol	357.460	ml/mol	McGowan Method
pc	1023.34	kPa	Joback Method
rinpol	3435.00		NIST Webbook
rinpol	3435.00		NIST Webbook
tb	993.80	K	Joback Method
tc	1217.19	K	Joback Method
tf	576.94	K	Joback Method
vc	1.373	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1234.52	J/molxK	993.80	Joback Method
cpg	1251.52	J/molxK	1031.03	Joback Method
cpg	1266.93	J/molxK	1068.26	Joback Method
cpg	1280.83	J/molxK	1105.50	Joback Method
cpg	1293.27	J/molxK	1142.73	Joback Method
cpg	1304.33	J/molxK	1179.96	Joback Method
cpg	1314.06	J/molxK	1217.19	Joback Method
dvisc	0.0004093	Paxs	576.94	Joback Method

dvisc	0.0002177	Paxs	646.42	Joback Method
dvisc	0.0001309	Paxs	715.89	Joback Method
dvisc	0.0000861	Paxs	785.37	Joback Method
dvisc	0.0000607	Paxs	854.85	Joback Method
dvisc	0.0000450	Paxs	924.32	Joback Method
dvisc	0.0000348	Paxs	993.80	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U345770&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U345770&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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>

## 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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