

# Cyclohexyl methyl phthalate

<b>Other names:</b>	1,2-Benzenedicarboxylic acid, cyclohexyl methyl ester
<b>Inchi:</b>	InChI=1S/C15H18O4/c1-18-14(16)12-9-5-6-10-13(12)15(17)19-11-7-3-2-4-8-11/h5-6,9-1
<b>InchiKey:</b>	PFRYPBLKZWQNCG-UHFFFAOYSA-N
<b>Formula:</b>	C15H18O4
<b>SMILES:</b>	<chem>COC(=O)c1cccc1C(=O)OC1CCCCC1</chem>
<b>Mol. weight [g/mol]:</b>	262.30

## Physical Properties

Property code	Value	Unit	Source
gf	-265.19	kJ/mol	Joback Method
hf	-563.15	kJ/mol	Joback Method
hfus	25.67	kJ/mol	Joback Method
hvap	70.66	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	2.963		Crippen Method
mvol	202.470	ml/mol	McGowan Method
pc	2391.19	kPa	Joback Method
rinpol	2023.00		NIST Webbook
tb	746.39	K	Joback Method
tc	980.17	K	Joback Method
tf	449.45	K	Joback Method
vc	0.749	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	586.64	J/mol×K	746.39	Joback Method
cpg	603.50	J/mol×K	785.35	Joback Method
cpg	618.95	J/mol×K	824.32	Joback Method
cpg	633.02	J/mol×K	863.28	Joback Method
cpg	645.74	J/mol×K	902.25	Joback Method
cpg	657.10	J/mol×K	941.21	Joback Method
cpg	667.14	J/mol×K	980.17	Joback Method
dvisc	0.0010726	Paxs	449.45	Joback Method

dvisc	0.0006089	Paxs	498.94	Joback Method
dvisc	0.0003828	Paxs	548.43	Joback Method
dvisc	0.0002599	Paxs	597.92	Joback Method
dvisc	0.0001872	Paxs	647.41	Joback Method
dvisc	0.0001413	Paxs	696.90	Joback Method
dvisc	0.0001107	Paxs	746.39	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373813&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373813&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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