

# Maleic acid, dicyclohexyl ester

<b>Other names:</b>	dicyclohexyl maleate
<b>Inchi:</b>	InChI=1S/C16H24O4/c17-15(19-13-7-3-1-4-8-13)11-12-16(18)20-14-9-5-2-6-10-14/h11-1
<b>InchiKey:</b>	BLKQQTCUGZJWLN-UHFFFAOYSA-N
<b>Formula:</b>	C16H24O4
<b>SMILES:</b>	O=C(C=CC(=O)OC1CCCCC1)OC1CCCCC1
<b>Mol. weight [g/mol]:</b>	280.36
<b>CAS:</b>	621-13-6

## Physical Properties

Property code	Value	Unit	Source
gf	-254.88	kJ/mol	Joback Method
hf	-637.31	kJ/mol	Joback Method
hfus	26.64	kJ/mol	Joback Method
hvap	70.34	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	3.294		Crippen Method
mcvol	225.160	ml/mol	McGowan Method
pc	2066.12	kPa	Joback Method
tb	761.32	K	Joback Method
tc	992.32	K	Joback Method
tf	424.08	K	Joback Method
vc	0.826	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	700.35	J/molxK	761.32	Joback Method
cpg	784.78	J/molxK	953.82	Joback Method
cpg	770.99	J/molxK	915.32	Joback Method
cpg	755.70	J/molxK	876.82	Joback Method
cpg	738.85	J/molxK	838.32	Joback Method
cpg	720.42	J/molxK	799.82	Joback Method
cpg	797.10	J/molxK	992.32	Joback Method
dvisc	0.0000869	Paxs	761.32	Joback Method

dvisc	0.0001163	Paxs	705.11	Joback Method
dvisc	0.0001636	Paxs	648.91	Joback Method
dvisc	0.0002455	Paxs	592.70	Joback Method
dvisc	0.0004011	Paxs	536.49	Joback Method
dvisc	0.0007354	Paxs	480.29	Joback Method
dvisc	0.0015830	Paxs	424.08	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C621136&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C621136&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>

## 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>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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