

# Glutaric acid, 2,4-dichloronaphthyl isobutyl ester

Inchi:	InChI=1S/C19H20Cl2O4/c1-12(2)11-24-17(22)8-5-9-18(23)25-19-14-7-4-3-6-13(14)15(20)
InchiKey:	UOTBHJDCJKDTFK-UHFFFAOYSA-N
Formula:	C19H20Cl2O4
SMILES:	CC(C)COC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
Mol. weight [g/mol]:	383.27

## Physical Properties

Property code	Value	Unit	Source
gf	-194.87	kJ/mol	Joback Method
hf	-568.66	kJ/mol	Joback Method
hfus	45.30	kJ/mol	Joback Method
hvap	90.48	kJ/mol	Joback Method
log10ws	-6.51		Crippen Method
logp	5.422		Crippen Method
mvol	274.710	ml/mol	McGowan Method
pc	1619.37	kPa	Joback Method
rinpol	2845.00		NIST Webbook
rinpol	2845.00		NIST Webbook
tb	921.72	K	Joback Method
tc	1148.42	K	Joback Method
tf	589.73	K	Joback Method
vc	1.054	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	789.71	J/molxK	921.72	Joback Method
cpg	839.25	J/molxK	1110.64	Joback Method
cpg	831.27	J/molxK	1072.85	Joback Method
cpg	822.37	J/molxK	1035.07	Joback Method
cpg	812.50	J/molxK	997.29	Joback Method
cpg	801.63	J/molxK	959.50	Joback Method
cpg	846.37	J/molxK	1148.42	Joback Method
dvisc	0.0000902	Paxs	921.72	Joback Method

dvisc	0.0001094	Paxs	866.39	Joback Method
dvisc	0.0001364	Paxs	811.06	Joback Method
dvisc	0.0001756	Paxs	755.73	Joback Method
dvisc	0.0002353	Paxs	700.39	Joback Method
dvisc	0.0003315	Paxs	645.06	Joback Method
dvisc	0.0004981	Paxs	589.73	Joback Method

## Sources

<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=U358922&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358922&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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