

# Glutaric acid, 2,4-dichloronaphthyl propyl ester

Inchi:	InChI=1S/C18H18Cl2O4/c1-2-10-23-16(21)8-5-9-17(22)24-18-13-7-4-3-6-12(13)14(19)1
InchiKey:	PXTZFCQVENIYGT-UHFFFAOYSA-N
Formula:	C18H18Cl2O4
SMILES:	CCCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
Mol. weight [g/mol]:	369.24

## Physical Properties

Property code	Value	Unit	Source
gf	-200.85	kJ/mol	Joback Method
hf	-542.74	kJ/mol	Joback Method
hfus	46.24	kJ/mol	Joback Method
hvap	88.65	kJ/mol	Joback Method
log10ws	-6.33		Crippen Method
logp	5.176		Crippen Method
mcvol	260.620	ml/mol	McGowan Method
pc	1740.46	kPa	Joback Method
rinpol	2787.00		NIST Webbook
rinpol	2787.00		NIST Webbook
tb	899.28	K	Joback Method
tc	1124.53	K	Joback Method
tf	593.46	K	Joback Method
vc	1.004	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	732.24	J/molxK	899.28	Joback Method
cpg	780.67	J/molxK	1086.98	Joback Method
cpg	772.81	J/molxK	1049.44	Joback Method
cpg	764.07	J/molxK	1011.90	Joback Method
cpg	754.43	J/molxK	974.36	Joback Method
cpg	743.83	J/molxK	936.82	Joback Method
cpg	787.70	J/molxK	1124.53	Joback Method
dvisc	0.0001129	Paxs	899.28	Joback Method

dvisc	0.0001349	Paxs	848.31	Joback Method
dvisc	0.0001649	Paxs	797.34	Joback Method
dvisc	0.0002072	Paxs	746.37	Joback Method
dvisc	0.0002692	Paxs	695.40	Joback Method
dvisc	0.0003646	Paxs	644.43	Joback Method
dvisc	0.0005202	Paxs	593.46	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=U358921&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358921&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>

## 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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