

# Glutaric acid, 2,4-dichloronaphthyl heptyl ester

Inchi:	InChI=1S/C22H26Cl2O4/c1-2-3-4-5-8-14-27-20(25)12-9-13-21(26)28-22-17-11-7-6-10-16
InchiKey:	RUFGDDMAFLPAAS-UHFFFAOYSA-N
Formula:	C22H26Cl2O4
SMILES:	CCCCCCCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2cccc12
Mol. weight [g/mol]:	425.35

## Physical Properties

Property code	Value	Unit	Source
gf	-167.17	kJ/mol	Joback Method
hf	-625.30	kJ/mol	Joback Method
hfus	56.60	kJ/mol	Joback Method
hvap	97.55	kJ/mol	Joback Method
log10ws	-8.01		Crippen Method
logp	6.736		Crippen Method
mvol	316.980	ml/mol	McGowan Method
pc	1293.00	kPa	Joback Method
rinpol	3227.00		NIST Webbook
rinpol	3227.00		NIST Webbook
tb	990.80	K	Joback Method
tc	1217.56	K	Joback Method
tf	638.54	K	Joback Method
vc	1.228	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	964.32	J/molxK	990.80	Joback Method
cpg	1016.58	J/molxK	1179.77	Joback Method
cpg	1008.12	J/molxK	1141.97	Joback Method
cpg	998.72	J/molxK	1104.18	Joback Method
cpg	988.32	J/molxK	1066.39	Joback Method
cpg	976.87	J/molxK	1028.59	Joback Method
cpg	1024.16	J/molxK	1217.56	Joback Method
dvisc	0.0000652	Paxs	990.80	Joback Method

dvisc	0.0000792	Paxs	932.09	Joback Method
dvisc	0.0000986	Paxs	873.38	Joback Method
dvisc	0.0001267	Paxs	814.67	Joback Method
dvisc	0.0001694	Paxs	755.96	Joback Method
dvisc	0.0002377	Paxs	697.25	Joback Method
dvisc	0.0003551	Paxs	638.54	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=U358927&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358927&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>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>w<sub>s</sub>:</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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