

# Glutaric acid, 2,3-dichlorophenyl (2-naphthyl)methyl ester

<b>Inchi:</b>	InChI=1S/C22H18Cl2O4/c23-18-7-3-8-19(22(18)24)28-21(26)10-4-9-20(25)27-14-15-11-
<b>InchiKey:</b>	KDCCOUDDBUOBV-UHFFFAOYSA-N
<b>Formula:</b>	C22H18Cl2O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1cccc(Cl)c1Cl)OCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	417.28

## Physical Properties

Property code	Value	Unit	Source
gf	-54.76	kJ/mol	Joback Method
hf	-388.77	kJ/mol	Joback Method
hfus	50.64	kJ/mol	Joback Method
hvap	99.83	kJ/mol	Joback Method
log10ws	-7.61		Crippen Method
logp	5.966		Crippen Method
mvol	293.220	ml/mol	McGowan Method
pc	1665.97	kPa	Joback Method
rinpol	3434.00		NIST Webbook
rinpol	3434.00		NIST Webbook
tb	1017.48	K	Joback Method
tc	1263.90	K	Joback Method
tf	664.96	K	Joback Method
vc	1.119	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	853.66	J/molxK	1017.48	Joback Method
cpg	863.88	J/molxK	1058.55	Joback Method
cpg	873.01	J/molxK	1099.62	Joback Method
cpg	881.14	J/molxK	1140.69	Joback Method
cpg	888.35	J/molxK	1181.76	Joback Method
cpg	894.71	J/molxK	1222.83	Joback Method
cpg	900.32	J/molxK	1263.90	Joback Method
dvisc	0.0003404	Paxs	664.96	Joback Method

dvisc	0.0002338	Paxs	723.71	Joback Method
dvisc	0.0001699	Paxs	782.47	Joback Method
dvisc	0.0001291	Paxs	841.22	Joback Method
dvisc	0.0001017	Paxs	899.97	Joback Method
dvisc	0.0000825	Paxs	958.73	Joback Method
dvisc	0.0000685	Paxs	1017.48	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=U392208&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392208&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>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

Latest version available from:

<https://www.chemeo.com/cid/124-744-8/Glutaric-acid-2-3-dichlorophenyl-2-naphthyl-methyl-ester.pdf>

Generated by Cheméo on 2024-05-01 03:18:10.910034608 +0000 UTC m=+16822739.830611921.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.