

# Glutaric acid, cyclohexylmethyl 2,4-dichloro-1-naphthyl ester

<b>Inchi:</b>	InChI=1S/C22H24Cl2O4/c23-18-13-19(24)22(17-10-5-4-9-16(17)18)28-21(26)12-6-11-20
<b>InchiKey:</b>	DGYJOKISDOJQOX-UHFFFAOYSA-N
<b>Formula:</b>	C22H24Cl2O4
<b>SMILES:</b>	O=C(CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12)OCC1CCCCC1
<b>Mol. weight [g/mol]:</b>	423.33

## Physical Properties

Property code	Value	Unit	Source
gf	-142.72	kJ/mol	Joback Method
hf	-570.98	kJ/mol	Joback Method
hfus	48.43	kJ/mol	Joback Method
hvap	97.98	kJ/mol	Joback Method
log10ws	-7.66		Crippen Method
logp	6.346		Crippen Method
mvol	306.120	ml/mol	McGowan Method
pc	1506.98	kPa	Joback Method
rinpol	3310.00		NIST Webbook
rinpol	3310.00		NIST Webbook
tb	1010.35	K	Joback Method
tc	1252.78	K	Joback Method
tf	645.92	K	Joback Method
vc	1.161	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	955.91	J/molxK	1010.35	Joback Method
cpg	968.10	J/molxK	1050.76	Joback Method
cpg	978.89	J/molxK	1091.16	Joback Method
cpg	988.36	J/molxK	1131.57	Joback Method
cpg	996.58	J/molxK	1171.97	Joback Method
cpg	1003.62	J/molxK	1212.38	Joback Method
cpg	1009.56	J/molxK	1252.78	Joback Method
dvisc	0.0003957	Paxs	645.92	Joback Method

dvisc	0.0002596	Paxs	706.66	Joback Method
dvisc	0.0001820	Paxs	767.40	Joback Method
dvisc	0.0001345	Paxs	828.13	Joback Method
dvisc	0.0001036	Paxs	888.87	Joback Method
dvisc	0.0000825	Paxs	949.61	Joback Method
dvisc	0.0000675	Paxs	1010.35	Joback Method

## Sources

<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=U392025&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392025&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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