

# Glutaric acid, 3-methylbut-2-en-1-yl 2,4-dichloro-1-naphthyl ester

<b>Inchi:</b>	InChI=1S/C20H20Cl2O4/c1-13(2)10-11-25-18(23)8-5-9-19(24)26-20-15-7-4-3-6-14(15)16
<b>InchiKey:</b>	GEPOIZJZTVXYPJ-UHFFFAOYSA-N
<b>Formula:</b>	C20H20Cl2O4
<b>SMILES:</b>	CC(C)=CCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
<b>Mol. weight [g/mol]:</b>	395.28

## Physical Properties

Property code	Value	Unit	Source
gf	-112.34	kJ/mol	Joback Method
hf	-476.59	kJ/mol	Joback Method
hfus	50.31	kJ/mol	Joback Method
hvap	93.14	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	5.732		Crippen Method
mvol	284.500	ml/mol	McGowan Method
pc	1559.81	kPa	Joback Method
rinpol	2972.00		NIST Webbook
rinpol	2972.00		NIST Webbook
tb	949.08	K	Joback Method
tc	1179.74	K	Joback Method
tf	596.96	K	Joback Method
vc	1.097	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	817.79	J/mol×K	949.08	Joback Method
cpg	829.76	J/mol×K	987.52	Joback Method
cpg	840.81	J/mol×K	1025.97	Joback Method
cpg	851.01	J/mol×K	1064.41	Joback Method
cpg	860.43	J/mol×K	1102.85	Joback Method
cpg	869.12	J/mol×K	1141.29	Joback Method
cpg	877.17	J/mol×K	1179.74	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U392019&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392019&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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.cheméo.com/cid/124-466-7/Glutaric-acid-3-methylbut-2-en-1-yl-2-4-dichloro-1-naphthyl-ester.pdf>

Generated by Cheméo on 2024-04-30 12:38:24.987247861 +0000 UTC m=+16769953.907825176.

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