

# Glutaric acid, 2-naphthyl propyl ester

<b>Inchi:</b>	InChI=1S/C18H20O4/c1-2-12-21-17(19)8-5-9-18(20)22-16-11-10-14-6-3-4-7-15(14)13-16
<b>InchiKey:</b>	CTUFVMULWLVDQL-UHFFFAOYSA-N
<b>Formula:</b>	C18H20O4
<b>SMILES:</b>	CCCOC(=O)CCCC(=O)Oc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	300.35

## Physical Properties

Property code	Value	Unit	Source
gf	-157.73	kJ/mol	Joback Method
hf	-488.32	kJ/mol	Joback Method
hfus	38.62	kJ/mol	Joback Method
hvap	78.55	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	3.869		Crippen Method
mcvol	236.140	ml/mol	McGowan Method
pc	1901.92	kPa	Joback Method
rinpola	2532.00		NIST Webbook
rinpola	2532.00		NIST Webbook
tb	814.46	K	Joback Method
tc	1031.08	K	Joback Method
tf	508.58	K	Joback Method
vc	0.905	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.97	J/molxK	814.46	Joback Method
cpg	703.01	J/molxK	850.56	Joback Method
cpg	716.02	J/molxK	886.67	Joback Method
cpg	728.05	J/molxK	922.77	Joback Method
cpg	739.13	J/molxK	958.87	Joback Method
cpg	749.31	J/molxK	994.98	Joback Method
cpg	758.63	J/molxK	1031.08	Joback Method
dvisc	0.0008334	Paxs	508.58	Joback Method

dvisc	0.0005396	Paxs	559.56	Joback Method
dvisc	0.0003757	Paxs	610.54	Joback Method
dvisc	0.0002766	Paxs	661.52	Joback Method
dvisc	0.0002127	Paxs	712.50	Joback Method
dvisc	0.0001695	Paxs	763.48	Joback Method
dvisc	0.0001389	Paxs	814.46	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=U358777&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358777&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>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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