

# Glutaric acid, monoamide, N-(2-octyl)-, heptyl ester

Inchi:	InChI=1S/C20H39NO3/c1-4-6-8-10-12-17-24-20(23)16-13-15-19(22)21-18(3)14-11-9-7-5
InchiKey:	XIZLAUNXFHGULO-UHFFFAOYSA-N
Formula:	C20H39NO3
SMILES:	CCCCCCCOC(=O)CCCC(=O)NC(C)CCCCC
Mol. weight [g/mol]:	341.53

## Physical Properties

Property code	Value	Unit	Source
gf	-158.37	kJ/mol	Joback Method
hf	-765.32	kJ/mol	Joback Method
hfus	53.52	kJ/mol	Joback Method
hvap	82.06	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	5.145		Crippen Method
mvol	311.650	ml/mol	McGowan Method
pc	1105.21	kPa	Joback Method
rinpol	2857.00		NIST Webbook
rinpol	2857.00		NIST Webbook
tb	836.89	K	Joback Method
tc	1026.30	K	Joback Method
tf	474.91	K	Joback Method
vc	1.214	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1002.70	J/molxK	836.89	Joback Method
cpg	1020.82	J/molxK	868.46	Joback Method
cpg	1037.87	J/molxK	900.03	Joback Method
cpg	1053.88	J/molxK	931.59	Joback Method
cpg	1068.87	J/molxK	963.16	Joback Method
cpg	1082.87	J/molxK	994.73	Joback Method
cpg	1095.92	J/molxK	1026.30	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=U360855&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360855&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>rinpola:</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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