

# Glutaric acid, 3-methylbut-2-en-1-yl 3-octyl ester

Inchi:	InChI=1S/C18H32O4/c1-5-7-8-10-16(6-2)22-18(20)12-9-11-17(19)21-14-13-15(3)4/h13,1
InchiKey:	OGRURBAORLKAHA-UHFFFAOYSA-N
Formula:	C18H32O4
SMILES:	CCCCC(CC)OC(=O)CCCC(=O)OCC=C(C)C
Mol. weight [g/mol]:	312.44

## Physical Properties

Property code	Value	Unit	Source
gf	-297.93	kJ/mol	Joback Method
hf	-802.30	kJ/mol	Joback Method
hfus	43.32	kJ/mol	Joback Method
hvap	73.62	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	4.568		Crippen Method
mvol	275.060	ml/mol	McGowan Method
pc	1285.59	kPa	Joback Method
rmpol	2004.00		NIST Webbook
rmpol	2004.00		NIST Webbook
tb	767.42	K	Joback Method
tc	952.49	K	Joback Method
tf	402.90	K	Joback Method
vc	1.067	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	825.34	J/mol×K	767.42	Joback Method
cpg	842.48	J/mol×K	798.27	Joback Method
cpg	858.70	J/mol×K	829.11	Joback Method
cpg	874.00	J/mol×K	859.96	Joback Method
cpg	888.43	J/mol×K	890.80	Joback Method
cpg	901.98	J/mol×K	921.65	Joback Method
cpg	914.70	J/mol×K	952.49	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.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>
<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=U391558&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391558&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

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