

# Glutaric acid, heptyl octadecyl ester

<b>Inchi:</b>	InChI=1S/C30H58O4/c1-3-5-7-9-10-11-12-13-14-15-16-17-18-19-21-23-28-34-30(32)26-
<b>InchiKey:</b>	SDUKARYJQDQFBW-UHFFFAOYSA-N
<b>Formula:</b>	C30H58O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCCCCCCC
<b>Mol. weight [g/mol]:</b>	482.78

## Physical Properties

Property code	Value	Unit	Source
gf	-266.12	kJ/mol	Joback Method
hf	-1152.13	kJ/mol	Joback Method
hfus	79.03	kJ/mol	Joback Method
hvap	100.69	kJ/mol	Joback Method
log10ws	-10.11		Crippen Method
logp	9.475		Crippen Method
mcvol	448.440	ml/mol	McGowan Method
pc	623.13	kPa	Joback Method
rinqol	3423.00		NIST Webbook
tb	1038.38	K	Joback Method
tc	1305.67	K	Joback Method
tf	572.18	K	Joback Method
vc	1.764	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1605.20	J/molxK	1038.38	Joback Method
cpg	1629.54	J/molxK	1082.93	Joback Method
cpg	1651.34	J/molxK	1127.48	Joback Method
cpg	1670.72	J/molxK	1172.02	Joback Method
cpg	1687.79	J/molxK	1216.57	Joback Method
cpg	1702.67	J/molxK	1261.12	Joback Method
cpg	1715.46	J/molxK	1305.67	Joback Method
dvisc	0.0002389	Paxs	572.18	Joback Method
dvisc	0.0001064	Paxs	649.88	Joback Method

dvisc	0.0000563	Paxs	727.58	Joback Method
dvisc	0.0000337	Paxs	805.28	Joback Method
dvisc	0.0000221	Paxs	882.98	Joback Method
dvisc	0.0000155	Paxs	960.68	Joback Method
dvisc	0.0000114	Paxs	1038.38	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=U358337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358337&amp;Units=SI</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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