

# Glutaric acid, octadecyl 2,3,6-trifluorobenzyl ester

Inchi:	InChI=1S/C30H47F3O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-23-36-28(34)19-18
InchiKey:	NCTIEFDHYZZYJX-UHFFFAOYSA-N
Formula:	C30H47F3O4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCc1c(F)ccc(F)c1F
Mol. weight [g/mol]:	528.69

## Physical Properties

Property code	Value	Unit	Source
gf	-767.03	kJ/mol	Joback Method
hf	-1538.34	kJ/mol	Joback Method
hfus	81.14	kJ/mol	Joback Method
hvap	102.50	kJ/mol	Joback Method
log10ws	-10.70		Crippen Method
logp	9.122		Crippen Method
mvol	429.990	ml/mol	McGowan Method
pc	672.90	kPa	Joback Method
rinpol	3471.00		NIST Webbook
rinpol	3471.00		NIST Webbook
tb	1077.81	K	Joback Method
tc	1354.40	K	Joback Method
tf	637.93	K	Joback Method
vc	1.710	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1514.51	J/molxK	1077.81	Joback Method
cpg	1533.92	J/molxK	1123.91	Joback Method
cpg	1550.76	J/molxK	1170.01	Joback Method
cpg	1565.15	J/molxK	1216.11	Joback Method
cpg	1577.21	J/molxK	1262.21	Joback Method
cpg	1587.03	J/molxK	1308.31	Joback Method
cpg	1594.73	J/molxK	1354.40	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U376910&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376910&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.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>

# 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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