

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

<b>Inchi:</b>	InChI=1S/C27H41F3O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-20-33-25(31)16-15-17-26(32)
<b>InchiKey:</b>	LGSALPVTKPQNJT-UHFFFAOYSA-N
<b>Formula:</b>	C27H41F3O4
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)CCCC(=O)OCc1c(F)ccc(F)c1F
<b>Mol. weight [g/mol]:</b>	486.61

## Physical Properties

Property code	Value	Unit	Source
gf	-792.29	kJ/mol	Joback Method
hf	-1476.42	kJ/mol	Joback Method
hfus	73.37	kJ/mol	Joback Method
hvap	95.82	kJ/mol	Joback Method
log10ws	-9.44		Crippen Method
logp	7.952		Crippen Method
mcvol	387.720	ml/mol	McGowan Method
pc	785.95	kPa	Joback Method
rinpol	3161.00		NIST Webbook
rinpol	3161.00		NIST Webbook
tb	1009.17	K	Joback Method
tc	1247.41	K	Joback Method
tf	604.12	K	Joback Method
vc	1.542	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1325.28	J/mol×K	1009.17	Joback Method
cpg	1343.13	J/mol×K	1048.88	Joback Method
cpg	1359.11	J/mol×K	1088.58	Joback Method
cpg	1373.27	J/mol×K	1128.29	Joback Method
cpg	1385.68	J/mol×K	1168.00	Joback Method
cpg	1396.39	J/mol×K	1207.71	Joback Method
cpg	1405.45	J/mol×K	1247.41	Joback Method

# Sources

<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=U376907&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376907&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>

# 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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