

# Glutaric acid, octadecyl 2,3,4,5-tetrafluorobenzyl ester

Inchi:	InChI=1S/C30H46F4O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-21-37-26(35)19-18
InchiKey:	BYRBTPGWKPEDMR-UHFFFAOYSA-N
Formula:	C30H46F4O4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCc1cc(F)c(F)c(F)c1F
Mol. weight [g/mol]:	546.68

## Physical Properties

Property code	Value	Unit	Source
gf	-971.47	kJ/mol	Joback Method
hf	-1745.92	kJ/mol	Joback Method
hfus	83.83	kJ/mol	Joback Method
hvap	102.34	kJ/mol	Joback Method
log10ws	-11.03		Crippen Method
logp	9.261		Crippen Method
mvol	431.760	ml/mol	McGowan Method
pc	652.43	kPa	Joback Method
rinpol	3462.00		NIST Webbook
rinpol	3462.00		NIST Webbook
tb	1082.06	K	Joback Method
tc	1368.83	K	Joback Method
tf	651.04	K	Joback Method
vc	1.728	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1520.03	J/mol×K	1082.06	Joback Method
cpg	1539.53	J/mol×K	1129.86	Joback Method
cpg	1556.24	J/mol×K	1177.65	Joback Method
cpg	1570.25	J/mol×K	1225.45	Joback Method
cpg	1581.67	J/mol×K	1273.24	Joback Method
cpg	1590.62	J/mol×K	1321.04	Joback Method
cpg	1597.20	J/mol×K	1368.83	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377456&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377456&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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