

# Glutaric acid, 1,1,1-trifluoroprop-2-yl 2,4,4-trimethylpentyl ester

Inchi:	InChI=1S/C16H27F3O4/c1-11(9-15(3,4)5)10-22-13(20)7-6-8-14(21)23-12(2)16(17,18)19
InchiKey:	VY EYVFHAYPBWEX-UHFFFAOYSA-N
Formula:	C16H27F3O4
SMILES:	CC(COC(=O)CCCC(=O)OC(C)C(F)(F)F)CC(C)(C)C
Mol. weight [g/mol]:	340.38

## Physical Properties

Property code	Value	Unit	Source
gf	-967.63	kJ/mol	Joback Method
hf	-1479.56	kJ/mol	Joback Method
hfus	30.14	kJ/mol	Joback Method
hvap	63.70	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	4.266		Crippen Method
mvol	256.490	ml/mol	McGowan Method
pc	1329.07	kPa	Joback Method
rinpol	1609.00		NIST Webbook
rinpol	1609.00		NIST Webbook
tb	708.53	K	Joback Method
tc	885.31	K	Joback Method
tf	391.01	K	Joback Method
vc	1.000	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	762.13	J/mol×K	708.53	Joback Method
cpg	778.19	J/mol×K	737.99	Joback Method
cpg	793.34	J/mol×K	767.46	Joback Method
cpg	807.62	J/mol×K	796.92	Joback Method
cpg	821.06	J/mol×K	826.38	Joback Method
cpg	833.71	J/mol×K	855.85	Joback Method
cpg	845.58	J/mol×K	885.31	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=U391522&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391522&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>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>rinpola:</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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