

# Glutaric acid, hexyl 1-phenyl-2,2,2-trifluoroethyl ester

<b>Inchi:</b>	InChI=1S/C19H25F3O4/c1-2-3-4-8-14-25-16(23)12-9-13-17(24)26-18(19(20,21)22)15-10
<b>InchiKey:</b>	WNANFOOTMKQXMW-UHFFFAOYSA-N
<b>Formula:</b>	C19H25F3O4
<b>SMILES:</b>	CCCCCOC(=O)CCCC(=O)OC(c1ccccc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	374.39

## Physical Properties

Property code	Value	Unit	Source
gf	-830.36	kJ/mol	Joback Method
hf	-1290.92	kJ/mol	Joback Method
hfus	42.88	kJ/mol	Joback Method
hvap	74.34	kJ/mol	Joback Method
log10ws	-5.73		Crippen Method
logp	5.127		Crippen Method
mvol	275.000	ml/mol	McGowan Method
pc	1344.71	kPa	Joback Method
rmpol	2179.00		NIST Webbook
tb	807.52	K	Joback Method
tc	999.89	K	Joback Method
tf	463.82	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	844.07	J/mol×K	807.52	Joback Method
cpg	859.03	J/mol×K	839.58	Joback Method
cpg	872.97	J/mol×K	871.64	Joback Method
cpg	885.93	J/mol×K	903.70	Joback Method
cpg	897.93	J/mol×K	935.77	Joback Method
cpg	909.03	J/mol×K	967.83	Joback Method
cpg	919.25	J/mol×K	999.89	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=U377368&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377368&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvac:</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>mccol:</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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