

# Glutaric acid, 3-methylbut-2-yl 2-fluoroethyl ester

<b>Inchi:</b>	InChI=1S/C12H21FO4/c1-9(2)10(3)17-12(15)6-4-5-11(14)16-8-7-13/h9-10H,4-8H2,1-3H3
<b>InchiKey:</b>	HXPOGEMLMJBKNG-UHFFFAOYSA-N
<b>Formula:</b>	C12H21FO4
<b>SMILES:</b>	CC(C)C(C)OC(=O)CCCC(=O)OCCF
<b>Mol. weight [g/mol]:</b>	248.29

## Physical Properties

Property code	Value	Unit	Source
gf	-617.37	kJ/mol	Joback Method
hf	-987.28	kJ/mol	Joback Method
hfus	28.44	kJ/mol	Joback Method
hvap	59.03	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	2.257		Crippen Method
mcvol	196.590	ml/mol	McGowan Method
pc	1878.90	kPa	Joback Method
rinqol	1513.00		NIST Webbook
tb	624.93	K	Joback Method
tc	801.33	K	Joback Method
tf	339.91	K	Joback Method
vc	0.761	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.85	J/molxK	624.93	Joback Method
cpg	539.36	J/molxK	654.33	Joback Method
cpg	553.22	J/molxK	683.73	Joback Method
cpg	566.43	J/molxK	713.13	Joback Method
cpg	579.00	J/molxK	742.53	Joback Method
cpg	590.92	J/molxK	771.93	Joback Method
cpg	602.20	J/molxK	801.33	Joback Method

# Sources

<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>
<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=U393705&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393705&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

Latest version available from:

<https://www.chemeo.com/cid/93-699-4/Glutaric-acid-3-methylbut-2-yl-2-fluoroethyl-ester.pdf>

Generated by Cheméo on 2024-04-23 11:32:47.124737736 +0000 UTC m=+16161216.045315052.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.