

# Glutaric acid, but-3-yn-2-yl 2-fluoro-3-trifluoromethylphenyl ester

<b>Inchi:</b>	InChI=1S/C16H14F4O4/c1-3-10(2)23-13(21)8-5-9-14(22)24-12-7-4-6-11(15(12)17)16(18)
<b>InchiKey:</b>	UKGGHFJZIBFUIB-UHFFFAOYSA-N
<b>Formula:</b>	C16H14F4O4
<b>SMILES:</b>	<chem>C#CC(C)OC(=O)CCCC(=O)Oc1cccc(C(F)(F)F)c1F</chem>
<b>Mol. weight [g/mol]:</b>	346.27

## Physical Properties

Property code	Value	Unit	Source
gf	-846.62	kJ/mol	Joback Method
hf	-1156.15	kJ/mol	Joback Method
hfus	40.39	kJ/mol	Joback Method
hvap	68.03	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	3.485		Crippen Method
mvol	225.900	ml/mol	McGowan Method
pc	1786.37	kPa	Joback Method
rinpol	1815.00		NIST Webbook
rinpol	1815.00		NIST Webbook
tb	738.23	K	Joback Method
tc	933.96	K	Joback Method
tf	502.61	K	Joback Method
vc	0.888	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.91	J/mol×K	738.23	Joback Method
cpg	643.27	J/mol×K	770.85	Joback Method
cpg	654.78	J/mol×K	803.47	Joback Method
cpg	665.47	J/mol×K	836.09	Joback Method
cpg	675.37	J/mol×K	868.71	Joback Method
cpg	684.51	J/mol×K	901.34	Joback Method
cpg	692.92	J/mol×K	933.96	Joback Method

# Sources

<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=U393614&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393614&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>h vap:</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>r in pol:</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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