

# Glutaric acid, 1,1,1-trifluoroprop-2-yl undec-2-enyl ester

<b>Inchi:</b>	InChI=1S/C19H31F3O4/c1-3-4-5-6-7-8-9-10-11-15-25-17(23)13-12-14-18(24)26-16(2)19
<b>InchiKey:</b>	KGIVMRHOPXJLCR-ZHACJKMWSA-N
<b>Formula:</b>	C19H31F3O4
<b>SMILES:</b>	CCCCCCCCC=CCOC(=O)CCCC(=O)OC(C)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	380.44

## Physical Properties

Property code	Value	Unit	Source
gf	-862.55	kJ/mol	Joback Method
hf	-1410.23	kJ/mol	Joback Method
hfus	49.04	kJ/mol	Joback Method
hvap	72.02	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	5.501		Crippen Method
mcvol	294.460	ml/mol	McGowan Method
pc	1106.68	kPa	Joback Method
rinpol	2029.00		NIST Webbook
rinpol	2029.00		NIST Webbook
tb	785.00	K	Joback Method
tc	964.58	K	Joback Method
tf	432.32	K	Joback Method
vc	1.165	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	908.47	J/mol×K	785.00	Joback Method
cpg	924.88	J/mol×K	814.93	Joback Method
cpg	940.36	J/mol×K	844.86	Joback Method
cpg	954.95	J/mol×K	874.79	Joback Method
cpg	968.70	J/mol×K	904.72	Joback Method
cpg	981.64	J/mol×K	934.65	Joback Method
cpg	993.80	J/mol×K	964.58	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=U394010&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U394010&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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