

# Glutaric acid, 1,1,1-trifluoroprop-2-yl 2,6-dimethylnon-1-en-3-yn-5-yl ester

**Inchi:** InChI=1S/C19H27F3O4/c1-6-8-14(4)16(12-11-13(2)3)26-18(24)10-7-9-17(23)25-15(5)19  
**InchiKey:** OJKCVMUEEITITK-UHFFFAOYSA-N  
**Formula:** C19H27F3O4  
**SMILES:** C=C(C)C#CC(OC(=O)CCCC(=O)OC(C)C(F)(F)F)C(C)CCC  
**Mol. weight [g/mol]:** 376.41

## Physical Properties

Property code	Value	Unit	Source
gf	-665.56	kJ/mol	Joback Method
hf	-1150.07	kJ/mol	Joback Method
hfus	42.33	kJ/mol	Joback Method
hvap	72.85	kJ/mol	Joback Method
log10ws	-5.79		Crippen Method
logp	4.578		Crippen Method
mvol	285.860	ml/mol	McGowan Method
pc	1244.21	kPa	Joback Method
rinpol	1806.00		NIST Webbook
rinpol	1806.00		NIST Webbook
tb	785.52	K	Joback Method
tc	975.06	K	Joback Method
tf	497.78	K	Joback Method
vc	1.117	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	859.31	J/mol×K	785.52	Joback Method
cpg	875.21	J/mol×K	817.11	Joback Method
cpg	890.12	J/mol×K	848.70	Joback Method
cpg	904.09	J/mol×K	880.29	Joback Method
cpg	917.14	J/mol×K	911.88	Joback Method
cpg	929.31	J/mol×K	943.47	Joback Method
cpg	940.63	J/mol×K	975.06	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=U393959&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393959&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>hvp:</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>rinp:</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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