

# Glutaric acid, 2-fluoro-6-(trifluoromethyl)benzyl octyl ester

<b>Inchi:</b>	InChI=1S/C21H28F4O4/c1-2-3-4-5-6-7-14-28-19(26)12-9-13-20(27)29-15-16-17(21(23,2
<b>InchiKey:</b>	NTPZJKNEPCALRL-UHFFFAOYSA-N
<b>Formula:</b>	C21H28F4O4
<b>SMILES:</b>	CCCCCCCCOC(=O)CCCC(=O)OCc1c(F)ccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	420.44

## Physical Properties

Property code	Value	Unit	Source
gf	-1025.15	kJ/mol	Joback Method
hf	-1545.97	kJ/mol	Joback Method
hfus	53.89	kJ/mol	Joback Method
hvap	79.69	kJ/mol	Joback Method
log10ws	-6.95		Crippen Method
logp	5.962		Crippen Method
mcvol	304.950	ml/mol	McGowan Method
pc	1109.63	kPa	Joback Method
rinqol	2634.00		NIST Webbook
tb	862.95	K	Joback Method
tc	1057.84	K	Joback Method
tf	526.99	K	Joback Method
vc	1.212	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	966.41	J/molxK	862.95	Joback Method
cpg	981.49	J/molxK	895.43	Joback Method
cpg	995.49	J/molxK	927.91	Joback Method
cpg	1008.46	J/molxK	960.40	Joback Method
cpg	1020.43	J/molxK	992.88	Joback Method
cpg	1031.44	J/molxK	1025.36	Joback Method
cpg	1041.53	J/molxK	1057.84	Joback Method

# Sources

<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=U377504&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377504&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>
<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>

# 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>m cvol:</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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