

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

Inchi:  
ester

InChI=1S/C24H34F4O4/c1-2-3-4-5-6-7-8-9-10-17-31-22(29)15-12-16-23(30)32-18-19-20

InchiKey:

WEADWPHFCWJYAM-UHFFFAOYSA-N

Formula:

C24H34F4O4

SMILES:

CCCCCCCCCOC(=O)CCCC(=O)OCc1c(F)ccc1C(F)(F)F

Mol. weight [g/mol]:

462.52

## Physical Properties

Property code	Value	Unit	Source
gf	-999.89	kJ/mol	Joback Method
hf	-1607.89	kJ/mol	Joback Method
hfus	61.66	kJ/mol	Joback Method
hvap	86.37	kJ/mol	Joback Method
log10ws	-8.21		Crippen Method
logp	7.132		Crippen Method
mvol	347.220	ml/mol	McGowan Method
pc	923.86	kPa	Joback Method
rinpol	2963.00		NIST Webbook
rinpol	2963.00		NIST Webbook
tb	931.59	K	Joback Method
tc	1141.36	K	Joback Method
tf	560.80	K	Joback Method
vc	1.381	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1147.01	J/molxK	931.59	Joback Method
cpg	1163.31	J/molxK	966.55	Joback Method
cpg	1178.32	J/molxK	1001.51	Joback Method
cpg	1192.09	J/molxK	1036.47	Joback Method
cpg	1204.68	J/molxK	1071.44	Joback Method
cpg	1216.14	J/molxK	1106.40	Joback Method
cpg	1226.54	J/molxK	1141.36	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=U377507&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377507&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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