

# 2-Fluoro-3-trifluoromethylbenzoic acid, 2-ethylhexyl ester

<b>Inchi:</b>	InChI=1S/C16H20F4O2/c1-3-5-7-11(4-2)10-22-15(21)12-8-6-9-13(14(12)17)16(18,19)20
<b>InchiKey:</b>	VUAKWQAFCLWEY-UHFFFAOYSA-N
<b>Formula:</b>	C16H20F4O2
<b>SMILES:</b>	CCCCC(CC)COC(=O)c1cccc(C(F)(F)F)c1F
<b>Mol. weight [g/mol]:</b>	320.32

## Physical Properties

Property code	Value	Unit	Source
gf	-835.77	kJ/mol	Joback Method
hf	-1203.25	kJ/mol	Joback Method
hfus	34.63	kJ/mol	Joback Method
hvap	59.01	kJ/mol	Joback Method
log10ws	-5.84		Crippen Method
logp	5.218		Crippen Method
mvol	227.060	ml/mol	McGowan Method
pc	1525.88	kPa	Joback Method
rinpol	1701.00		NIST Webbook
tb	671.82	K	Joback Method
tc	852.66	K	Joback Method
tf	383.48	K	Joback Method
vc	0.902	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.14	J/mol×K	671.82	Joback Method
cpg	649.25	J/mol×K	701.96	Joback Method
cpg	663.52	J/mol×K	732.10	Joback Method
cpg	676.97	J/mol×K	762.24	Joback Method
cpg	689.63	J/mol×K	792.38	Joback Method
cpg	701.54	J/mol×K	822.52	Joback Method
cpg	712.72	J/mol×K	852.66	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=U357644&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357644&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>

# 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>hvac:</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>mccol:</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

Latest version available from:

<https://www.chemeo.com/cid/59-744-1/2-Fluoro-3-trifluoromethylbenzoic-acid-2-ethylhexyl-ester.pdf>

Generated by Cheméo on 2024-04-26 10:00:06.829757644 +0000 UTC m=+16414855.750334955.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.