

# Terephthalic acid, 2-fluoro-6-(trifluoromethyl)benzyl propyl ester

<b>Inchi:</b>	InChI=1S/C19H16F4O4/c1-2-10-26-17(24)12-6-8-13(9-7-12)18(25)27-11-14-15(19(21,22
<b>InchiKey:</b>	DTQSTEKYSSRZKH-UHFFFAOYSA-N
<b>Formula:</b>	C19H16F4O4
<b>SMILES:</b>	CCCOC(=O)c1ccc(C(=O)OCc2c(F)cccc2C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	384.32

## Physical Properties

Property code	Value	Unit	Source
gf	-939.21	kJ/mol	Joback Method
hf	-1279.63	kJ/mol	Joback Method
hfus	42.36	kJ/mol	Joback Method
hvap	78.17	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	4.768		Crippen Method
mcvol	253.010	ml/mol	McGowan Method
pc	1607.71	kPa	Joback Method
rinpol	2698.00		NIST Webbook
rinpol	2698.00		NIST Webbook
tb	848.85	K	Joback Method
tc	1058.55	K	Joback Method
tf	543.39	K	Joback Method
vc	0.993	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	753.01	J/molxK	848.85	Joback Method
cpg	765.15	J/molxK	883.80	Joback Method
cpg	776.24	J/molxK	918.75	Joback Method
cpg	786.31	J/molxK	953.70	Joback Method
cpg	795.42	J/molxK	988.65	Joback Method
cpg	803.59	J/molxK	1023.60	Joback Method
cpg	810.88	J/molxK	1058.55	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=U382943&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382943&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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