

# Terephthalic acid, di(2,2,2-trifluoroethyl) ester

<b>Inchi:</b>	InChI=1S/C12H8F6O4/c13-11(14,15)5-21-9(19)7-1-2-8(4-3-7)10(20)22-6-12(16,17)18/h1
<b>InchiKey:</b>	ZHFJNGPLSHPUSW-UHFFFAOYSA-N
<b>Formula:</b>	C12H8F6O4
<b>SMILES:</b>	O=C(OCC(F)(F)F)c1ccc(C(=O)OCC(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	330.18

## Physical Properties

Property code	Value	Unit	Source
gf	-1478.08	kJ/mol	Joback Method
hf	-1749.71	kJ/mol	Joback Method
hfus	29.71	kJ/mol	Joback Method
hvap	56.06	kJ/mol	Joback Method
log10ws	-4.12		Crippen Method
logp	3.125		Crippen Method
mcvol	181.680	ml/mol	McGowan Method
pc	2077.43	kPa	Joback Method
rinpola	1570.00		NIST Webbook
rinpola	1570.00		NIST Webbook
tb	647.36	K	Joback Method
tc	830.71	K	Joback Method
tf	416.64	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.43	J/molxK	647.36	Joback Method
cpg	502.34	J/molxK	677.92	Joback Method
cpg	512.49	J/molxK	708.48	Joback Method
cpg	521.91	J/molxK	739.03	Joback Method
cpg	530.64	J/molxK	769.59	Joback Method
cpg	538.71	J/molxK	800.15	Joback Method
cpg	546.14	J/molxK	830.71	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=U383054&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U383054&amp;Units=SI</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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