

# Terephthalic acid, propyl 2,2,2-trifluoro-1-phenylethyl ester

Inchi:	InChI=1S/C19H17F3O4/c1-2-12-25-17(23)14-8-10-15(11-9-14)18(24)26-16(19(20,21)22)
InchiKey:	ZGSBYXWVGOCHPZ-UHFFFAOYSA-N
Formula:	C19H17F3O4
SMILES:	CCCOC(=O)c1ccc(C(=O)OC(c2ccccc2)C(F)(F)F)cc1
Mol. weight [g/mol]:	366.33

## Physical Properties

Property code	Value	Unit	Source
gf	-727.58	kJ/mol	Joback Method
hf	-1065.86	kJ/mol	Joback Method
hfus	36.54	kJ/mol	Joback Method
hvap	77.28	kJ/mol	Joback Method
log10ws	-5.95		Crippen Method
logp	4.714		Crippen Method
mvol	251.240	ml/mol	McGowan Method
pc	1720.31	kPa	Joback Method
rinpol	2256.00		NIST Webbook
rinpol	2256.00		NIST Webbook
tb	839.18	K	Joback Method
tc	1055.66	K	Joback Method
tf	502.76	K	Joback Method
vc	0.969	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.70	J/mol×K	839.18	Joback Method
cpg	761.60	J/mol×K	875.26	Joback Method
cpg	773.35	J/mol×K	911.34	Joback Method
cpg	784.02	J/mol×K	947.42	Joback Method
cpg	793.65	J/mol×K	983.50	Joback Method
cpg	802.30	J/mol×K	1019.58	Joback Method
cpg	810.03	J/mol×K	1055.66	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U415983&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415983&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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