

# Phthalic acid, propyl 2-trifluoromethylbenzyl ester

<b>Other names:</b>	Phthalic acid, propyl 2-trifluorobenzyl ester
<b>Inchi:</b>	InChI=1S/C19H17F3O4/c1-2-11-25-17(23)14-8-4-5-9-15(14)18(24)26-12-13-7-3-6-10-16
<b>InchiKey:</b>	QZVQIUSCCXEFNB-UHFFFAOYSA-N
<b>Formula:</b>	C19H17F3O4
<b>SMILES:</b>	CCCOC(=O)c1ccccc1C(=O)OCc1ccccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	366.33

## Physical Properties

Property code	Value	Unit	Source
gf	-734.77	kJ/mol	Joback Method
hf	-1072.05	kJ/mol	Joback Method
hfus	39.67	kJ/mol	Joback Method
hvap	78.33	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	4.629		Crippen Method
mcvol	251.240	ml/mol	McGowan Method
pc	1687.95	kPa	Joback Method
rinpol	2211.00		NIST Webbook
rinpol	2211.00		NIST Webbook
tb	844.60	K	Joback Method
tc	1059.19	K	Joback Method
tf	530.28	K	Joback Method
vc	0.975	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	746.86	J/molxK	844.60	Joback Method
cpg	759.53	J/molxK	880.37	Joback Method
cpg	771.09	J/molxK	916.13	Joback Method
cpg	781.59	J/molxK	951.90	Joback Method
cpg	791.09	J/molxK	987.66	Joback Method
cpg	799.63	J/molxK	1023.43	Joback Method
cpg	807.26	J/molxK	1059.19	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=U377817&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377817&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>hvap:</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>rinpola:</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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