

# 1-Phenoxypropan-2-yl trifluoroacetate

<b>Other names:</b>	2-Phenoxy-1-methylethyl trifluoroacetate Phenoxyisopropanyl trifluoroacetate
<b>Inchi:</b>	InChI=1S/C11H11F3O3/c1-8(17-10(15)11(12,13)14)7-16-9-5-3-2-4-6-9/h2-6,8H,7H2,1H3
<b>InchiKey:</b>	IMTYBMZPGKODON-UHFFFAOYSA-N
<b>Formula:</b>	C11H11F3O3
<b>SMILES:</b>	CC(COc1ccccc1)OC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	248.20

## Physical Properties

Property code	Value	Unit	Source
gf	-768.80	kJ/mol	Joback Method
hf	-1013.22	kJ/mol	Joback Method
hfus	20.57	kJ/mol	Joback Method
hvap	49.79	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.559		Crippen Method
mcvol	160.710	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
rinpol	1254.00		NIST Webbook
tb	570.61	K	Joback Method
tc	764.95	K	Joback Method
tf	323.73	K	Joback Method
vc	0.623	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	399.60	J/molxK	570.61	Joback Method
cpg	412.87	J/molxK	603.00	Joback Method
cpg	425.33	J/molxK	635.39	Joback Method
cpg	437.02	J/molxK	667.78	Joback Method
cpg	447.96	J/molxK	700.17	Joback Method
cpg	458.16	J/molxK	732.56	Joback Method
cpg	467.66	J/molxK	764.95	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=U372959&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U372959&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>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>rlnol:</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.cheméo.com/cid/55-597-9/1-Phenoxypropan-2-yl-trifluoroacetate.pdf>

Generated by Cheméo on 2024-04-27 20:35:27.841503042 +0000 UTC m=+16539376.762080353.

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