

# Dotriacontyl trifluoroacetate

<b>Other names:</b>	Dotriacontyl 2,2,2-trifluoroacetate 1-Dotriacontanol, trifluoroacetate
<b>Inchi:</b>	InChI=1S/C34H65F3O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23
<b>InchiKey:</b>	ZKTKQWPZEBJTKD-UHFFFAOYSA-N
<b>Formula:</b>	C34H65F3O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCOC(=O)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	562.87

## Physical Properties

Property code	Value	Unit	Source
gf	-580.11	kJ/mol	Joback Method
hf	-1586.97	kJ/mol	Joback Method
hfus	88.43	kJ/mol	Joback Method
hvap	96.69	kJ/mol	Joback Method
log10ws	-13.58		Crippen Method
logp	12.815		Crippen Method
mcvol	502.670	ml/mol	McGowan Method
pc	482.61	kPa	Joback Method
rinpol	3371.30		NIST Webbook
tb	1048.19	K	Joback Method
tc	1358.23	K	Joback Method
tf	549.29	K	Joback Method
vc	2.006	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1837.04	J/molxK	1048.19	Joback Method
cpg	1869.77	J/molxK	1099.86	Joback Method
cpg	1899.64	J/molxK	1151.54	Joback Method
cpg	1926.98	J/molxK	1203.21	Joback Method
cpg	1952.15	J/molxK	1254.88	Joback Method
cpg	1975.50	J/molxK	1306.55	Joback Method
cpg	1997.35	J/molxK	1358.23	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U351754&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U351754&amp;Units=SI</a>
<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>

# 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>hvpap:</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>rinppl:</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.chemeo.com/cid/73-436-7/Dotriacontyl-trifluoroacetate.pdf>

Generated by Cheméo on 2024-04-20 04:08:35.687742508 +0000 UTC m=+15875364.608319835.

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