

# «delta»-Tocopherol, O-pentafluoropropionyl-

<b>Inchi:</b>	InChI=1S/C30H45F5O3/c1-20(2)10-7-11-21(3)12-8-13-22(4)14-9-16-28(6)17-15-24-19-2
<b>InchiKey:</b>	HHBPUONUQXMRJU-UHFFFAOYSA-N
<b>Formula:</b>	C30H45F5O3
<b>SMILES:</b>	<chem>Cc1cc(OC(=O)C(F)(F)C(F)(F)F)cc2c1OC(C)(CCCC(C)CCCC(C)CCCC(C)C)CC2</chem>
<b>Mol. weight [g/mol]:</b>	548.67

## Physical Properties

Property code	Value	Unit	Source
gf	-967.33	kJ/mol	Joback Method
hf	-1769.22	kJ/mol	Joback Method
hfus	56.84	kJ/mol	Joback Method
hvap	91.39	kJ/mol	Joback Method
log10ws	-10.98		Crippen Method
logp	9.621		Crippen Method
mcvol	421.100	ml/mol	McGowan Method
pc	715.68	kPa	Joback Method
rinpol	2726.00		NIST Webbook
tb	1030.48	K	Joback Method
tc	1265.90	K	Joback Method
tf	591.68	K	Joback Method
vc	1.649	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1515.70	J/mol×K	1030.48	Joback Method
cpg	1541.89	J/mol×K	1069.72	Joback Method
cpg	1568.10	J/mol×K	1108.95	Joback Method
cpg	1594.62	J/mol×K	1148.19	Joback Method
cpg	1621.71	J/mol×K	1187.43	Joback Method
cpg	1649.66	J/mol×K	1226.66	Joback Method
cpg	1678.74	J/mol×K	1265.90	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=U374732&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374732&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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