

# «alpha»-Hydroxynervonic acid, HFB-Me

**Inchi:** InChI=1S/C29H47F7O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24  
**InchiKey:** JNINHMOIJZDCZ-MSUUIHNZSA-N  
**Formula:** C29H47F7O4  
**SMILES:** CCCCCCCCCCCCCC=CCCCCCCC(OC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(=O)OC  
**Mol. weight [g/mol]:** 592.67

## Physical Properties

Property code	Value	Unit	Source
gf	-1551.91	kJ/mol	Joback Method
hf	-2418.57	kJ/mol	Joback Method
hfus	72.44	kJ/mol	Joback Method
hvap	88.42	kJ/mol	Joback Method
log10ws	-10.94		Crippen Method
logp	9.892		Crippen Method
mcvol	442.440	ml/mol	McGowan Method
pc	592.57	kPa	Joback Method
rinpol	2725.00		NIST Webbook
tb	1004.42	K	Joback Method
tc	1266.66	K	Joback Method
tf	552.22	K	Joback Method
vc	1.774	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1556.84	J/mol×K	1004.42	Joback Method
cpg	1580.39	J/mol×K	1048.13	Joback Method
cpg	1602.36	J/mol×K	1091.83	Joback Method
cpg	1623.00	J/mol×K	1135.54	Joback Method
cpg	1642.57	J/mol×K	1179.25	Joback Method
cpg	1661.32	J/mol×K	1222.95	Joback Method
cpg	1679.51	J/mol×K	1266.66	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=R134302&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R134302&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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