

# «alpha»-Hydroxypentacosanoic acid, HFB-Me

<b>Inchi:</b>	InChI=1S/C30H51F7O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-2
<b>InchiKey:</b>	OUIDBWRLESQWIS-UHFFFAOYSA-N
<b>Formula:</b>	C30H51F7O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCC(OC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(=O)OC
<b>Mol. weight [g/mol]:</b>	608.71

## Physical Properties

Property code	Value	Unit	Source
gf	-1623.71	kJ/mol	Joback Method
hf	-2556.43	kJ/mol	Joback Method
hfus	74.82	kJ/mol	Joback Method
hvap	90.69	kJ/mol	Joback Method
log10ws	-11.51		Crippen Method
logp	10.506		Crippen Method
mvol	460.830	ml/mol	McGowan Method
pc	552.07	kPa	Joback Method
rinpol	2849.00		NIST Webbook
tb	1023.14	K	Joback Method
tc	1307.58	K	Joback Method
tf	568.57	K	Joback Method
vc	1.851	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1649.90	J/mol×K	1023.14	Joback Method
cpg	1675.55	J/mol×K	1070.55	Joback Method
cpg	1699.10	J/mol×K	1117.95	Joback Method
cpg	1720.87	J/mol×K	1165.36	Joback Method
cpg	1741.16	J/mol×K	1212.76	Joback Method
cpg	1760.26	J/mol×K	1260.17	Joback Method
cpg	1778.49	J/mol×K	1307.58	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=R134322&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R134322&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>hvac:</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>mccol:</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

Latest version available from:

<https://www.chemeo.com/cid/40-697-4/alpha-Hydroxypentacosanoic-acid-HFB-Me.pdf>

Generated by Cheméo on 2024-05-01 03:26:43.696091949 +0000 UTC m=+16823252.616669271.

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