

# Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-propionyl]propionhydrazide

<b>Inchi:</b>	InChI=1S/C34H52N2O4/c1-31(2,3)23-17-21(18-24(29(23)39)32(4,5)6)13-15-27(37)35-36
<b>InchiKey:</b>	HCILJBJZALOAL-UHFFFAOYSA-N
<b>Formula:</b>	C34H52N2O4
<b>SMILES:</b>	CC(C)(C)c1cc(CCC(=O)NNC(=O)CCc2cc(C(C)(C)C)c(O)c(C(C)(C)C)c2)cc(C(C)(C)C)c1
<b>Mol. weight [g/mol]:</b>	552.79
<b>CAS:</b>	32687-78-8

## Physical Properties

Property code	Value	Unit	Source
gf	44.76	kJ/mol	Joback Method
hf	-825.75	kJ/mol	Joback Method
hfus	65.65	kJ/mol	Joback Method
hvap	145.69	kJ/mol	Joback Method
log10ws	-8.83		Crippen Method
logp	7.001		Crippen Method
mcvol	477.240	ml/mol	McGowan Method
pc	888.94	kPa	Joback Method
tb	1407.00	K	Joback Method
tc	1753.11	K	Joback Method
tf	1014.16	K	Joback Method
vc	1.694	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1940.17	J/molxK	1407.00	Joback Method
cpg	2000.96	J/molxK	1464.68	Joback Method
cpg	2068.95	J/molxK	1522.37	Joback Method
cpg	2145.18	J/molxK	1580.05	Joback Method
cpg	2230.68	J/molxK	1637.74	Joback Method
cpg	2326.49	J/molxK	1695.42	Joback Method

cpg	2433.66	J/mol×K	1753.11	Joback Method
hfust	41.50	kJ/mol	503.00	NIST Webbook

## Sources

<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=C32687788&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C32687788&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>

## 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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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