

# 3-ethyl-1-adamantanol

<b>Inchi:</b>	InChI=1S/C12H20O/c1-2-11-4-9-3-10(5-11)7-12(13,6-9)8-11/h9-10,13H,2-8H2,1H3
<b>InchiKey:</b>	LJFGNNHKXSJWFF-UHFFFAOYSA-N
<b>Formula:</b>	C12H20O
<b>SMILES:</b>	CCC12CC3CC(CC(O)(C3)C1)C2
<b>Mol. weight [g/mol]:</b>	180.29

## Physical Properties

Property code	Value	Unit	Source
gf	64.80	kJ/mol	Joback Method
hf	-220.86	kJ/mol	Joback Method
hfus	11.70	kJ/mol	Joback Method
hvap	56.28	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.728		Crippen Method
mcvol	153.230	ml/mol	McGowan Method
pc	3065.95	kPa	Joback Method
ripol	1408.00		NIST Webbook
ripol	1461.00		NIST Webbook
ripol	1442.00		NIST Webbook
ripol	1429.00		NIST Webbook
ripol	1408.00		NIST Webbook
ripol	1988.00		NIST Webbook
ripol	2008.00		NIST Webbook
ripol	1969.00		NIST Webbook
tb	586.44	K	Joback Method
tc	795.77	K	Joback Method
tf	379.68	K	Joback Method
vc	0.585	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	436.57	J/mol×K	586.44	Joback Method
cpg	453.66	J/mol×K	621.33	Joback Method

cpg	469.62	J/mol×K	656.22	Joback Method
cpg	484.71	J/mol×K	691.11	Joback Method
cpg	499.17	J/mol×K	726.00	Joback Method
cpg	513.26	J/mol×K	760.88	Joback Method
cpg	527.21	J/mol×K	795.77	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=R304704&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R304704&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>ripola:</b>	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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