

# Valerianol (Khusunol)

<b>Inchi:</b>	InChI=1S/C15H24O/c1-10-13-5-4-12(9-16)15(13)7-6-11(8-15)14(10,2)3/h11-13,16H,1,4-
<b>InchiKey:</b>	OOYRHNIVDZZGQV-PWNZVWSESA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	C=C1C2CCC(CO)C23CCC(C3)C1(C)C
<b>Mol. weight [g/mol]:</b>	220.35

## Physical Properties

Property code	Value	Unit	Source
gf	123.33	kJ/mol	Joback Method
hf	-225.04	kJ/mol	Joback Method
hfus	17.29	kJ/mol	Joback Method
hvap	62.98	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.387		Crippen Method
mvol	191.200	ml/mol	McGowan Method
pc	2304.74	kPa	Joback Method
rinpol	1623.00		NIST Webbook
rinpol	1626.00		NIST Webbook
tb	653.84	K	Joback Method
tc	861.60	K	Joback Method
tf	419.41	K	Joback Method
vc	0.728	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	573.73	J/mol×K	653.84	Joback Method
cpg	592.34	J/mol×K	688.47	Joback Method
cpg	610.14	J/mol×K	723.09	Joback Method
cpg	627.34	J/mol×K	757.72	Joback Method
cpg	644.19	J/mol×K	792.34	Joback Method
cpg	660.92	J/mol×K	826.97	Joback Method
cpg	677.76	J/mol×K	861.60	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R613157&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R613157&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>hvp:</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>rinp:</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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