

# Pogostol

<b>Inchi:</b>	InChI=1S/C15H26O/c1-10(2)12-7-8-15(4,16)14-6-5-11(3)13(14)9-12/h11-14,16H,1,5-9H2
<b>InchiKey:</b>	VYOZKWKETGHHDW-AIEDFZFUSA-N
<b>Formula:</b>	C15H26O
<b>SMILES:</b>	C=C(C)C1CCC(C)(O)C2CCC(C)C2C1
<b>Mol. weight [g/mol]:</b>	222.37

## Physical Properties

Property code	Value	Unit	Source
gf	62.37	kJ/mol	Joback Method
hf	-314.34	kJ/mol	Joback Method
hfus	20.89	kJ/mol	Joback Method
hvap	63.51	kJ/mol	Joback Method
log10ws	-4.15		Crippen Method
logp	3.776		Crippen Method
mcvol	202.060	ml/mol	McGowan Method
pc	2041.91	kPa	Joback Method
ripol	1656.00		NIST Webbook
ripol	1637.00		NIST Webbook
ripol	1656.00		NIST Webbook
ripol	2191.00		NIST Webbook
ripol	2191.00		NIST Webbook
ripol	2240.00		NIST Webbook
tb	648.13	K	Joback Method
tc	853.75	K	Joback Method
tf	336.89	K	Joback Method
vc	0.753	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	598.16	J/molxK	648.13	Joback Method
cpg	619.17	J/molxK	682.40	Joback Method
cpg	639.08	J/molxK	716.67	Joback Method
cpg	658.00	J/molxK	750.94	Joback Method

cpg	676.06	J/mol×K	785.21	Joback Method
cpg	693.38	J/mol×K	819.48	Joback Method
cpg	710.06	J/mol×K	853.75	Joback Method

## 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=R334319&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R334319&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>
<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>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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</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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