

# gibbilimbol A

<b>Inchi:</b>	InChI=1S/C16H24O/c1-2-3-4-5-6-7-8-9-10-15-11-13-16(17)14-12-15/h6-7,11-14,17H,2-5
<b>InchiKey:</b>	LMJPVRRXXPPOFAM-VOTSOKGWSA-N
<b>Formula:</b>	C16H24O
<b>SMILES:</b>	CCCCC=CCCCc1ccc(O)cc1
<b>Mol. weight [g/mol]:</b>	232.36

## Physical Properties

Property code	Value	Unit	Source
gf	121.85	kJ/mol	Joback Method
hf	-197.13	kJ/mol	Joback Method
hfus	37.22	kJ/mol	Joback Method
hvap	66.46	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	4.851		Crippen Method
mcvol	214.110	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpol	2016.00		NIST Webbook
tb	676.94	K	Joback Method
tc	883.47	K	Joback Method
tf	403.14	K	Joback Method
vc	0.769	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.02	J/molxK	676.94	Joback Method
cpg	605.73	J/molxK	711.36	Joback Method
cpg	621.51	J/molxK	745.78	Joback Method
cpg	636.44	J/molxK	780.21	Joback Method
cpg	650.62	J/molxK	814.63	Joback Method
cpg	664.15	J/molxK	849.05	Joback Method
cpg	677.11	J/molxK	883.47	Joback Method
dvisc	0.0010245	Paxs	403.14	Joback Method
dvisc	0.0003429	Paxs	448.77	Joback Method

dvisc	0.0001405	Paxs	494.41	Joback Method
dvisc	0.0000669	Paxs	540.04	Joback Method
dvisc	0.0000358	Paxs	585.67	Joback Method
dvisc	0.0000209	Paxs	631.31	Joback Method
dvisc	0.0000132	Paxs	676.94	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=R518973&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R518973&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>dvisc:</b>	Dynamic viscosity
<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>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

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