

# S-(-)-1-Phenylpropanol

<b>Inchi:</b>	InChI=1S/C9H12O/c1-2-9(10)8-6-4-3-5-7-8/h3-7,9-10H,2H2,1H3/t9-m/s1
<b>InchiKey:</b>	DYUQAZSOFZSPHD-SECBINFHSA-N
<b>Formula:</b>	C9H12O
<b>SMILES:</b>	CCC(O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	136.19
<b>CAS:</b>	613-87-6

## Physical Properties

Property code	Value	Unit	Source
gf	-1.95	kJ/mol	Joback Method
hf	-150.07	kJ/mol	Joback Method
hfus	13.67	kJ/mol	Joback Method
hvap	54.19	kJ/mol	Joback Method
log10ws	-2.42		Crippen Method
logp	2.130		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
tb	523.74	K	Joback Method
tc	722.83	K	Joback Method
tf	263.43	K	Joback Method
vc	0.445	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.01	J/molxK	523.74	Joback Method
cpg	278.99	J/molxK	556.92	Joback Method
cpg	290.28	J/molxK	590.10	Joback Method
cpg	300.91	J/molxK	623.28	Joback Method
cpg	310.91	J/molxK	656.46	Joback Method
cpg	320.31	J/molxK	689.65	Joback Method
cpg	329.13	J/molxK	722.83	Joback Method
dvisc	0.0307952	Paxs	263.43	Joback Method
dvisc	0.0063252	Paxs	306.81	Joback Method

dvisc	0.0019230	Paxs	350.20	Joback Method
dvisc	0.0007602	Paxs	393.59	Joback Method
dvisc	0.0003613	Paxs	436.97	Joback Method
dvisc	0.0001964	Paxs	480.36	Joback Method
dvisc	0.0001181	Paxs	523.74	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=C613876&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C613876&amp;Units=SI</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>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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