

# Benzeneethanol, «alpha»-propyl-

<b>Other names:</b>	DL-1-phenylpentan-2-ol 1-Phenylpentan-2-ol
<b>Inchi:</b>	InChI=1S/C11H16O/c1-2-6-11(12)9-10-7-4-3-5-8-10/h3-5,7-8,11-12H,2,6,9H2,1H3
<b>InchiKey:</b>	FCURFTSXOIATDW-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O
<b>SMILES:</b>	CCCC(O)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	164.24
<b>CAS:</b>	705-73-7

## Physical Properties

Property code	Value	Unit	Source
gf	14.89	kJ/mol	Joback Method
hf	-191.35	kJ/mol	Joback Method
hfus	18.85	kJ/mol	Joback Method
hvap	58.65	kJ/mol	Joback Method
log10ws	-2.91		Crippen Method
logp	2.390		Crippen Method
mcvol	147.960	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
ripol	2256.00		NIST Webbook
ripol	2256.00		NIST Webbook
tb	569.50	K	Joback Method
tc	763.30	K	Joback Method
tf	285.97	K	Joback Method
vc	0.556	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	358.85	J/molxK	569.50	Joback Method
cpg	372.41	J/molxK	601.80	Joback Method
cpg	385.22	J/molxK	634.10	Joback Method
cpg	397.31	J/molxK	666.40	Joback Method
cpg	408.71	J/molxK	698.70	Joback Method

cpg	419.45	J/molxK	731.00	Joback Method
cpg	429.57	J/molxK	763.30	Joback Method
dvisc	0.0199438	Paxs	285.97	Joback Method
dvisc	0.0042092	Paxs	333.23	Joback Method
dvisc	0.0013074	Paxs	380.48	Joback Method
dvisc	0.0005258	Paxs	427.74	Joback Method
dvisc	0.0002535	Paxs	474.99	Joback Method
dvisc	0.0001394	Paxs	522.25	Joback Method
dvisc	0.0000847	Paxs	569.50	Joback Method

## Sources

<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=C705737&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C705737&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>

## 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>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

Latest version available from:

<https://www.chemeo.com/cid/72-519-6/Benzeneethanol-alpha-propyl.pdf>

Generated by Cheméo on 2024-04-20 02:04:59.285831626 +0000 UTC m=+15867948.206408937.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.