

# Benzenemethanol, 4-ethyl-

<b>Other names:</b>	Benzyl alcohol, p-ethyl- p-Ethylbenzyl alcohol 4-Ethylbenzyl alcohol
<b>Inchi:</b>	InChI=1S/C9H12O/c1-2-8-3-5-9(7-10)6-4-8/h3-6,10H,2,7H2,1H3
<b>InchiKey:</b>	YSLBFFIVJGJBSA-UHFFFAOYSA-N
<b>Formula:</b>	C9H12O
<b>SMILES:</b>	CCc1ccc(CO)cc1
<b>Mol. weight [g/mol]:</b>	136.19
<b>CAS:</b>	768-59-2

## Physical Properties

Property code	Value	Unit	Source
gf	-9.14	kJ/mol	Joback Method
hf	-156.26	kJ/mol	Joback Method
hfus	16.81	kJ/mol	Joback Method
hvap	55.25	kJ/mol	Joback Method
log10ws	-2.42		Crippen Method
logp	1.741		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3568.53	kPa	Joback Method
ripol	2145.00		NIST Webbook
ripol	2145.00		NIST Webbook
tb	529.16	K	Joback Method
tc	725.15	K	Joback Method
tf	290.95	K	Joback Method
vc	0.451	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.45	J/molxK	529.16	Joback Method
cpg	317.36	J/molxK	692.49	Joback Method
cpg	308.29	J/molxK	659.82	Joback Method
cpg	298.68	J/molxK	627.16	Joback Method

cpg	288.52	J/molxK	594.49	Joback Method
cpg	277.78	J/molxK	561.83	Joback Method
cpg	325.92	J/molxK	725.15	Joback Method
dvisc	0.0001184	Paxs	529.16	Joback Method
dvisc	0.0001835	Paxs	489.46	Joback Method
dvisc	0.0003073	Paxs	449.76	Joback Method
dvisc	0.0005687	Paxs	410.05	Joback Method
dvisc	0.0012010	Paxs	370.35	Joback Method
dvisc	0.0030353	Paxs	330.65	Joback Method
dvisc	0.0098792	Paxs	290.95	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	389.20	K	1.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C768592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C768592&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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