

# Benzene, 1-(1-hydroxyethyl)-4-isobutyl-

<b>Other names:</b>	1-(4-Isobutylphenyl)-1-ethanol
<b>Inchi:</b>	InChI=1S/C12H18O/c1-9(2)8-11-4-6-12(7-5-11)10(3)13/h4-7,9-10,13H,8H2,1-3H3
<b>InchiKey:</b>	VLVILBSSXMZZCB-UHFFFAOYSA-N
<b>Formula:</b>	C12H18O
<b>SMILES:</b>	CC(C)Cc1ccc(C(C)O)cc1
<b>Mol. weight [g/mol]:</b>	178.27
<b>CAS:</b>	40150-92-3

## Physical Properties

Property code	Value	Unit	Source
gf	11.24	kJ/mol	Joback Method
hf	-228.74	kJ/mol	Joback Method
hfus	17.53	kJ/mol	Joback Method
hvap	61.15	kJ/mol	Joback Method
log10ws	-3.39		Crippen Method
logp	2.938		Crippen Method
mcvol	162.050	ml/mol	McGowan Method
pc	2640.67	kPa	Joback Method
rinpol	1379.00		NIST Webbook
rinpol	1379.00		NIST Webbook
tb	596.92	K	Joback Method
tc	792.94	K	Joback Method
tf	294.76	K	Joback Method
vc	0.607	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.35	J/mol×K	596.92	Joback Method
cpg	421.65	J/mol×K	629.59	Joback Method
cpg	435.17	J/mol×K	662.26	Joback Method
cpg	447.95	J/mol×K	694.93	Joback Method
cpg	460.01	J/mol×K	727.60	Joback Method
cpg	471.38	J/mol×K	760.27	Joback Method

cpg	482.09	J/mol×K	792.94	Joback Method
dvisc	0.0161608	Paxs	294.76	Joback Method
dvisc	0.0032859	Paxs	345.12	Joback Method
dvisc	0.0010024	Paxs	395.48	Joback Method
dvisc	0.0003999	Paxs	445.84	Joback Method
dvisc	0.0001922	Paxs	496.20	Joback Method
dvisc	0.0001058	Paxs	546.56	Joback Method
dvisc	0.0000644	Paxs	596.92	Joback Method

## Sources

<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=C40150923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C40150923&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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