

Benzeneethanol, 2-hydroxy-

Other names:	o-(2-Hydroxyethyl)phenol o-Hydroxyphenethyl alcohol «beta»-(o-Hydroxyphenyl)ethanol 2-(o-Hydroxyphenyl)ethanol 2-(2-Hydroxyphenyl)ethanol Phenethyl alcohol, o-hydroxy- 2-Hydroxyphenethyl alcohol 2-(2-Hydroxyethyl)phenol NSC 101845
Inchi:	InChI=1S/C8H10O2/c9-6-5-7-3-1-2-4-8(7)10/h1-4,9-10H,5-6H2
InchiKey:	ABFCOJLLBHXNOU-UHFFFAOYSA-N
Formula:	C8H10O2
SMILES:	OCCc1ccccc1O
Mol. weight [g/mol]:	138.16
CAS:	7768-28-7

Physical Properties

Property code	Value	Unit	Source
gf	-162.55	kJ/mol	Joback Method
hf	-301.46	kJ/mol	Joback Method
hfus	20.39	kJ/mol	Joback Method
hvap	65.37	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	0.927		Crippen Method
mcvol	111.560	ml/mol	McGowan Method
pc	5001.51	kPa	Joback Method
rinpol	1410.00		NIST Webbook
rinpol	1410.00		NIST Webbook
ripol	2839.00		NIST Webbook
tb	581.92	K	Joback Method
tc	791.22	K	Joback Method
tf	378.88	K	Joback Method
vc	0.360	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.14	J/molxK	581.92	Joback Method
cpg	310.72	J/molxK	756.34	Joback Method
cpg	303.42	J/molxK	721.46	Joback Method
cpg	295.68	J/molxK	686.57	Joback Method
cpg	287.43	J/molxK	651.69	Joback Method
cpg	278.61	J/molxK	616.80	Joback Method
cpg	317.63	J/molxK	791.22	Joback Method
dvisc	0.0000191	Paxs	581.92	Joback Method
dvisc	0.0000335	Paxs	548.08	Joback Method
dvisc	0.0000636	Paxs	514.24	Joback Method
dvisc	0.0001320	Paxs	480.40	Joback Method
dvisc	0.0003060	Paxs	446.56	Joback Method
dvisc	0.0008141	Paxs	412.72	Joback Method
dvisc	0.0025798	Paxs	378.88	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	441.70	K	0.30	NIST Webbook

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7768287&Units=SI>

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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