Benzeneethanol, 4-hydroxy-

Other names:	Tyrosol
	4-(2-Hydroxyethyl)phenol
	p-Hydroxyphenethyl alcohol
	4-Hydroxyphenethyl alcohol
	«beta»-(p-Hydroxyphenyl)ethanol
	«beta»-(4-Hydroxyphenyl)ethanol
	2-(p-Hydroxyphenyl)ethanol
	2-(4-Hydroxyphenyl)ethanol
	4-Hydroxyphenylethanol
	Phenethyl alcohol, p-hydroxy-
	p-Thyrosol
	p-Tyrosol
	4-Hydroxyphenylethyl alcohol
	p-Hydroxyphenylethyl alcohol
	Ethanol, 2-(4-hydroxyphenyl)
	p-Hydroxy-benzeneethanol
	2-(4-Hydroxyphenyl)ethyl alcohol
	4-Hydroxybenzeneethanol
	NSC 59876
	tyrosol [2-(4-hydroxy-phenyl)ethanol]
Inchi:	InChI=1S/C8H10O2/c9-6-5-7-1-3-8(10)4-2-7/h1-4,9-10H,5-6H2
InchiKey:	YCCILVSKPBXVIP-UHFFFAOYSA-N
Formula:	C8H10O2
SMILES:	OCCc1ccc(O)cc1
Mol. weight [g/mol]:	138.16
CAS:	501-94-0

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	1442.00		NIST Webbook
rinpol	1451.00		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1427.00		NIST Webbook
rinpol	1490.00		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1442.00		NIST Webbook
rinpol	1431.90		NIST Webbook
ripol	3012.00		NIST Webbook
ripol	3008.00		NIST Webbook
ripol	2965.00		NIST Webbook
ripol	3008.00		NIST Webbook
ripol	2999.00		NIST Webbook
ripol	3012.00		NIST Webbook
ripol	3012.00		NIST Webbook
ripol	2978.00		NIST Webbook
ripol	2985.00		NIST Webbook
ripol	2999.00		NIST Webbook
tb	581.92	K	Joback Method
tc	791.22	K	Joback Method
tf	363.00 ± 3.00	K	NIST Webbook
vc	0.360	m3/kmol	Joback Method

Temperature Dependent Properties

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

hfust	25.90	kJ/mol	364.00	NIST Webbook

Sources

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=C501940&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hfust:	Enthalpy of fusion at a given temperature
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume