

Ethanol, 2-([1,1'-biphenyl]-2-yloxy)-

Other names:

«beta»-Hydroxyethyl ether of o-phenylphenol

Ethanol, 2-(o-biphenylyloxy)-

Ethanol, 2-(2-biphenylyloxy)-

Ethyl alcohol, 2-(o-biphenylyloxy)-

Ethyl alcohol, 2-(o-phenyl)phenoxy-

2-(2-Biphenyloxy)ethanol

Inchi:

InChI=1S/C14H14O2/c15-10-11-16-14-9-5-4-8-13(14)12-6-2-1-3-7-12/h1-9,15H,10-11H2

InchiKey:

NOZAKUWNUGNDLI-UHFFFAOYSA-N

Formula:

C14H14O2

SMILES:

OCCOc1ccccc1-c1ccccc1

Mol. weight [g/mol]:

214.26

CAS:

7501-02-2

Physical Properties

Property code	Value	Unit	Source
gf	40.37	kJ/mol	Joback Method
hf	-155.15	kJ/mol	Joback Method
hfus	24.99	kJ/mol	Joback Method
hvap	71.06	kJ/mol	Joback Method
log10ws	-3.88		Crippen Method
logp	2.725		Crippen Method
mcvol	172.340	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
tb	692.66	K	Joback Method
tc	910.69	K	Joback Method
tf	346.15 ± 1.00	K	NIST Webbook
vc	0.640	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.53	J/mol×K	910.69	Joback Method
cpg	510.49	J/mol×K	874.35	Joback Method
cpg	500.67	J/mol×K	838.01	Joback Method

cpg	490.04	J/mol×K	801.67	Joback Method
cpg	478.55	J/mol×K	765.34	Joback Method
cpg	466.17	J/mol×K	729.00	Joback Method
cpg	452.85	J/mol×K	692.66	Joback Method
dvisc	0.0015745	Paxs	395.95	Joback Method
dvisc	0.0000362	Paxs	692.66	Joback Method
dvisc	0.0000534	Paxs	643.21	Joback Method
dvisc	0.0000838	Paxs	593.76	Joback Method
dvisc	0.0001429	Paxs	544.30	Joback Method
dvisc	0.0002710	Paxs	494.85	Joback Method
dvisc	0.0005924	Paxs	445.40	Joback Method
hvapt	71.90	kJ/mol	509.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7501022&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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