

Benzene, (2-ethoxyethyl)-

Other names:	Ethyl phenethyl ether (2-ethoxyethyl)benzene
Inchi:	InChI=1S/C10H14O/c1-2-11-9-8-10-6-4-3-5-7-10/h3-7H,2,8-9H2,1H3
InchiKey:	YLQUZJVSFHZOBQ-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	CCOCCc1ccccc1
Mol. weight [g/mol]:	150.22
CAS:	1817-90-9

Physical Properties

Property code	Value	Unit	Source
gf	40.73	kJ/mol	Joback Method
hf	-145.42	kJ/mol	Joback Method
hfus	16.89	kJ/mol	Joback Method
hvap	42.54	kJ/mol	Joback Method
log10ws	-2.20		Crippen Method
logp	2.266		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2878.12	kPa	Joback Method
rinpol	1124.00		NIST Webbook
rinpol	1124.00		NIST Webbook
rinpol	1124.00		NIST Webbook
tb	477.30	K	Joback Method
tc	680.42	K	Joback Method
tf	251.11	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.03	J/mol×K	477.30	Joback Method
cpg	295.72	J/mol×K	511.15	Joback Method
cpg	309.68	J/mol×K	545.01	Joback Method
cpg	322.92	J/mol×K	578.86	Joback Method

cpg	335.47	J/mol×K	612.71	Joback Method
cpg	347.33	J/mol×K	646.57	Joback Method
cpg	358.54	J/mol×K	680.42	Joback Method
dvisc	0.0027820	Pa×s	251.11	Joback Method
dvisc	0.0013384	Pa×s	288.81	Joback Method
dvisc	0.0007625	Pa×s	326.51	Joback Method
dvisc	0.0004880	Pa×s	364.21	Joback Method
dvisc	0.0003396	Pa×s	401.90	Joback Method
dvisc	0.0002515	Pa×s	439.60	Joback Method
dvisc	0.0001953	Pa×s	477.30	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1817909&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/21-588-6/Benzene-2-ethoxyethyl.pdf>

Generated by Cheméo on 2025-12-05 17:08:15.626414958 +0000 UTC m=+4702693.156455623.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.