ETHANOL, 2-(PHENYLMETHOXY)-

Other names:	Ethanol, 2-(benzyloxy)-
	Ethylene glycol monobenzyl ether
	Glycol monobenzyl ether
	2-(Benzyloxy)ethanol
	Glycol benzyl ether
	Benzyl cellosolve
	Benzylcelosolv
	NSC 8886
Inchi:	InChI=1S/C9H12O2/c10-6-7-11-8-9-4-2-1-3-5-9/h1-5,10H,6-8H2
InchiKey:	CUZKCNWZBXLAJX-UHFFFAOYSA-N
Formula:	C9H12O2
SMILES:	OCCOCc1ccccc1
Mol. weight [g/mol]:	152.19

Physical Properties

Property code	Value	Unit	Source
hf	-261.82	kJ/mol	Cheméo Relay (1.0)
hfus	18.38	kJ/mol	Joback Method
hvap	72.44	kJ/mol	Cheméo Relay (1.0)
ie	9.06	eV	Cheméo Relay (1.0)
log10ws	-0.49		Cheméo Relay (1.0)
logp	1.195		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
rinpol	1252.60		NIST Webbook
rinpol	1275.00		NIST Webbook
rinpol	1275.00		NIST Webbook
ripol	2129.00		NIST Webbook
ripol	2129.00		NIST Webbook
tb	538.20	K	NIST Webbook
tb	529.20	K	NIST Webbook
tc	757.47	K	Cheméo Relay (1.0)
tf	267.58	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	341.42	J/mol×K	707.78	Joback Method
cpg	350.05	J/mol×K	740.02	Joback Method
cpg	301.43	J/mol×K	578.84	Joback Method
cpg	312.27	J/mol×K	611.07	Joback Method
cpg	322.54	J/mol×K	643.31	Joback Method
cpg	332.25	J/mol×K	675.55	Joback Method
cpg	289.99	J/mol×K	546.60	Joback Method
dvisc	0.0010196	Pa×s	382.64	Joback Method
dvisc	0.0026389	Pa×s	341.65	Joback Method
dvisc	0.0088520	Pa×s	300.66	Joback Method
dvisc	0.0004735	Pa×s	423.63	Joback Method
dvisc	0.0002518	Pa×s	464.62	Joback Method
dvisc	0.0001483	Pa×s	505.61	Joback Method
dvisc	0.0000946	Pa×s	546.60	Joback Method
hvapt	58.60	kJ/mol	491.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	410.50 ± 0.50	K	2.30	NIST Webbook

Sources

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

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C622082&Units=SI

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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
ie:	Ionization energy
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