

Benzene, (2-methoxyethyl)-

Other names:	Ether, methyl phenethyl «beta»-Phenylethyl methyl ether Methyl phenethyl ether Methyl phenethyl oxide Methyl phenylethyl ether Methyl 2-phenethyl ether Phenylethyl methyl ether 2-Phenylethyl methyl ether Kewda ether (2-Methoxyethyl)benzene 1-Methoxy-2-phenylethane NSC 81229
Inchi:	InChI=1S/C9H12O/c1-10-8-7-9-5-3-2-4-6-9/h2-6H,7-8H2,1H3
InchiKey:	CQLYXIUHVFRXLT-UHFFFAOYSA-N
Formula:	C9H12O
SMILES:	COCCc1ccccc1
Mol. weight [g/mol]:	136.19
CAS:	3558-60-9

Physical Properties

Property code	Value	Unit	Source
gf	32.31	kJ/mol	Joback Method
hf	-124.78	kJ/mol	Joback Method
hfus	14.29	kJ/mol	Joback Method
hvap	40.31	kJ/mol	Joback Method
log10ws	-1.78		Crippen Method
logp	1.875		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
rinpol	1089.00		NIST Webbook
rinpol	1089.00		NIST Webbook
rinpol	1083.40		NIST Webbook
rinpol	1062.00		NIST Webbook
rinpol	1083.40		NIST Webbook
tb	454.42	K	Joback Method
tc	660.22	K	Joback Method
tf	239.84	K	Joback Method

vc

0.450

m³/kmol

Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.54	J/mol×K	454.42	Joback Method
cpg	252.16	J/mol×K	488.72	Joback Method
cpg	265.10	J/mol×K	523.02	Joback Method
cpg	277.38	J/mol×K	557.32	Joback Method
cpg	289.01	J/mol×K	591.62	Joback Method
cpg	300.02	J/mol×K	625.92	Joback Method
cpg	310.41	J/mol×K	660.22	Joback Method
dvisc	0.0027046	Paxs	239.84	Joback Method
dvisc	0.0013289	Paxs	275.60	Joback Method
dvisc	0.0007687	Paxs	311.37	Joback Method
dvisc	0.0004978	Paxs	347.13	Joback Method
dvisc	0.0003496	Paxs	382.89	Joback Method
dvisc	0.0002608	Paxs	418.66	Joback Method
dvisc	0.0002037	Paxs	454.42	Joback Method

Sources

McGowan Method:

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

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C3558609&Units=SI>

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

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

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
p_c:	Critical Pressure
r_{inpol}:	Non-polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

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