

Naphthalene, 1-(phenylmethoxy)-

Other names:	Ether, benzyl 1-naphthyl Benzyl 1-naphthyl ether Benzyl «alpha»-naphthyl ether
Inchi:	InChI=1S/C17H14O/c1-2-7-14(8-3-1)13-18-17-12-6-10-15-9-4-5-11-16(15)17/h1-12H,13
InchiKey:	JWSWULLEVAMIJK-UHFFFAOYSA-N
Formula:	C17H14O
SMILES:	c1ccc(COc2cccc3ccccc23)cc1
Mol. weight [g/mol]:	234.29
CAS:	607-58-9

Physical Properties

Property code	Value	Unit	Source
gf	309.10	kJ/mol	Joback Method
hf	126.23	kJ/mol	Joback Method
hfus	25.69	kJ/mol	Joback Method
hvap	62.70	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	4.419		Crippen Method
mcvol	189.280	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
tb	688.10	K	Joback Method
tc	940.02	K	Joback Method
tf	401.64	K	Joback Method
vc	0.712	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	489.06	J/mol×K	688.10	Joback Method
cpg	505.62	J/mol×K	730.09	Joback Method
cpg	520.81	J/mol×K	772.07	Joback Method
cpg	534.73	J/mol×K	814.06	Joback Method
cpg	547.50	J/mol×K	856.04	Joback Method
cpg	559.22	J/mol×K	898.03	Joback Method

cpg	570.01	J/mol×K	940.02	Joback Method
dvisc	0.0011754	Paxs	401.64	Joback Method
dvisc	0.0007396	Paxs	449.38	Joback Method
dvisc	0.0005087	Paxs	497.13	Joback Method
dvisc	0.0003736	Paxs	544.87	Joback Method
dvisc	0.0002884	Paxs	592.61	Joback Method
dvisc	0.0002314	Paxs	640.36	Joback Method
dvisc	0.0001914	Paxs	688.10	Joback Method

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=C607589&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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