

Benzene, (hexyloxy)-

Other names:	Ether, hexyl phenyl (Hexyloxy)benzene n-Hexyl phenyl ether Hexyl phenyl ether
Inchi:	InChI=1S/C12H18O/c1-2-3-4-8-11-13-12-9-6-5-7-10-12/h5-7,9-10H,2-4,8,11H2,1H3
InchiKey:	KNRQFACTBMDELK-UHFFFAOYSA-N
Formula:	C12H18O
SMILES:	CCCCCOc1cccc1
Mol. weight [g/mol]:	178.27
CAS:	1132-66-7

Physical Properties

Property code	Value	Unit	Source
gf	57.57	kJ/mol	Joback Method
hf	-186.70	kJ/mol	Joback Method
hfus	22.07	kJ/mol	Joback Method
hvap	46.99	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	3.646		Crippen Method
mcvol	162.050	ml/mol	McGowan Method
pc	2365.67	kPa	Joback Method
tb	523.06	K	Joback Method
tc	720.74	K	Joback Method
tf	273.65	K	Joback Method
vc	0.618	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.92	J/mol×K	523.06	Joback Method
cpg	446.03	J/mol×K	687.80	Joback Method
cpg	432.77	J/mol×K	654.85	Joback Method
cpg	418.74	J/mol×K	621.90	Joback Method
cpg	403.94	J/mol×K	588.95	Joback Method

cpg	388.34	J/mol×K	556.01	Joback Method
cpg	458.57	J/mol×K	720.74	Joback Method
dvisc	0.0001724	Paxs	523.06	Joback Method
dvisc	0.0002244	Paxs	481.49	Joback Method
dvisc	0.0003069	Paxs	439.92	Joback Method
dvisc	0.0004481	Paxs	398.35	Joback Method
dvisc	0.0007146	Paxs	356.79	Joback Method
dvisc	0.0012889	Paxs	315.22	Joback Method
dvisc	0.0027812	Paxs	273.65	Joback Method

Sources

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=C1132667&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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