

Decyloxybenzene

Inchi:	InChI=1S/C16H26O/c1-2-3-4-5-6-7-8-12-15-17-16-13-10-9-11-14-16/h9-11,13-14H,2-8,1
InchiKey:	QECQLMGRZLYSEW-UHFFFAOYSA-N
Formula:	C16H26O
SMILES:	CCCCCCCCCOc1ccccc1
Mol. weight [g/mol]:	234.38
CAS:	35021-67-1

Physical Properties

Property code	Value	Unit	Source
gf	91.25	kJ/mol	Joback Method
hf	-269.26	kJ/mol	Joback Method
hfus	32.42	kJ/mol	Joback Method
hvap	55.90	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	5.206		Crippen Method
mvol	218.410	ml/mol	McGowan Method
pc	1679.66	kPa	Joback Method
tb	614.58	K	Joback Method
tc	802.70	K	Joback Method
tf	348.00 ± 3.00	K	NIST Webbook
vc	0.842	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.29	J/mol×K	614.58	Joback Method
cpg	592.90	J/mol×K	645.93	Joback Method
cpg	610.59	J/mol×K	677.29	Joback Method
cpg	627.36	J/mol×K	708.64	Joback Method
cpg	643.25	J/mol×K	739.99	Joback Method
cpg	658.29	J/mol×K	771.35	Joback Method
cpg	672.50	J/mol×K	802.70	Joback Method
dvisc	0.0023569	Paxs	318.73	Joback Method
dvisc	0.0010286	Paxs	368.04	Joback Method

dvisc	0.0005461	Paxs	417.35	Joback Method
dvisc	0.0003314	Paxs	466.65	Joback Method
dvisc	0.0002213	Paxs	515.96	Joback Method
dvisc	0.0001585	Paxs	565.27	Joback Method
dvisc	0.0001198	Paxs	614.58	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=C35021671&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
mccvol:	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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