

Ether, butyl p-(1,1-dimethylpropyl)phenyl

Inchi:	InChI=1S/C15H24O/c1-5-7-12-16-14-10-8-13(9-11-14)15(3,4)6-2/h8-11H,5-7,12H2,1-4H
InchiKey:	BMZCPHQHBGKTEY-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	CCCCOc1ccc(C(C)(C)CC)cc1
Mol. weight [g/mol]:	220.35
CAS:	73090-62-7

Physical Properties

Property code	Value	Unit	Source
gf	76.04	kJ/mol	Joback Method
hf	-268.84	kJ/mol	Joback Method
hfus	22.03	kJ/mol	Joback Method
hvap	53.04	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	4.553		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	1826.28	kPa	Joback Method
tb	593.45	K	Joback Method
tc	795.23	K	Joback Method
tf	322.40	K	Joback Method
vc	0.774	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.54	J/molxK	593.45	Joback Method
cpg	543.45	J/molxK	627.08	Joback Method
cpg	561.30	J/molxK	660.71	Joback Method
cpg	578.14	J/molxK	694.34	Joback Method
cpg	594.00	J/molxK	727.97	Joback Method
cpg	608.92	J/molxK	761.60	Joback Method
cpg	622.95	J/molxK	795.23	Joback Method
dvisc	0.0021798	Paxs	322.40	Joback Method
dvisc	0.0009911	Paxs	367.57	Joback Method

dvisc	0.0005355	Paxs	412.75	Joback Method
dvisc	0.0003267	Paxs	457.93	Joback Method
dvisc	0.0002178	Paxs	503.10	Joback Method
dvisc	0.0001552	Paxs	548.28	Joback Method
dvisc	0.0001165	Paxs	593.45	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=C73090627&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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