

4-(1,1,3,3-Tetramethylbutyl)phenyl-3,6-dimethyl-1-

InChI:
ether

InChI=1S/C22H34O/c1-16-8-9-17(2)20(14-16)23-19-12-10-18(11-13-19)22(6,7)15-21(3,4)

InChIKey:

SOPYOYMCUZNUBV-UHFFFAOYSA-N

Formula:

C22H34O

SMILES:

CC1C=C(Oc2ccc(C(C)(C)CC(C)(C)C)cc2)C(C)CC1

Mol. weight [g/mol]:

314.50

Physical Properties

Property code	Value	Unit	Source
gf	174.89	kJ/mol	Joback Method
hf	-341.78	kJ/mol	Joback Method
hfus	26.49	kJ/mol	Joback Method
hvap	68.40	kJ/mol	Joback Method
log10ws	-7.03		Crippen Method
logp	6.729		Crippen Method
mcvol	287.790	ml/mol	McGowan Method
pc	1275.51	kPa	Joback Method
ripol	3005.00		NIST Webbook
tb	769.40	K	Joback Method
tc	993.79	K	Joback Method
tf	420.13	K	Joback Method
vc	1.073	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	894.73	J/molxK	769.40	Joback Method
cpg	917.59	J/molxK	806.80	Joback Method
cpg	938.80	J/molxK	844.20	Joback Method
cpg	958.47	J/molxK	881.60	Joback Method
cpg	976.68	J/molxK	919.00	Joback Method
cpg	993.53	J/molxK	956.39	Joback Method
cpg	1009.12	J/molxK	993.79	Joback Method
dvisc	0.0010039	Paxs	420.13	Joback Method
dvisc	0.0004596	Paxs	478.34	Joback Method

dvisc	0.0002493	Paxs	536.55	Joback Method
dvisc	0.0001525	Paxs	594.76	Joback Method
dvisc	0.0001018	Paxs	652.98	Joback Method
dvisc	0.0000726	Paxs	711.19	Joback Method
dvisc	0.0000545	Paxs	769.40	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R58511&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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