4-(1,1,3,3-Tetramethylbutyl)phenyl-2-(3,6-dimethyl ether

InChI: InChI=1S/C24H38O/c1-18-8-9-19(2)20(16-18)14-15-25-22-12-10-21(11-13-22)24(6,7)17-
InchiKey: OYOCPOVLSVRKDT-UHFFFAOYSA-N
Formula: C24H38O
SMILES: CC1C=C(CCOc2ccc(C(C)(C)CC(C)(C)C)cc2)C(C)CC1
Mol. weight [g/mol]: 342.56

Physical Properties

Property code	Value	Unit	Source
gf	191.73	kJ/mol	Joback Method
hf	-383.06	kJ/mol	Joback Method
hfus	31.67	kJ/mol	Joback Method
hvap	72.85	kJ/mol	Joback Method
log10ws	-7.37		Crippen Method
logp	7.162		Crippen Method
mcvol	315.970	ml/mol	McGowan Method
pc	1117.06	kPa	Joback Method
ripol	3206.00		NIST Webbook
ripol	3206.00		NIST Webbook
tb	815.16	K	Joback Method
tc	1033.97	K	Joback Method
tf	442.67	K	Joback Method
vc	1.185	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1016.13	J/mol×K	815.16	Joback Method
cpg	1038.61	J/mol×K	851.63	Joback Method
cpg	1059.52	J/mol×K	888.10	Joback Method
cpg	1078.93	J/mol×K	924.56	Joback Method
cpg	1096.95	J/mol×K	961.03	Joback Method
cpg	1113.67	J/mol×K	997.50	Joback Method
cpg	1129.19	J/mol×K	1033.97	Joback Method
dvisc	0.0008105	Pa×s	442.67	Joback Method

dvisc	0.0003636	Pa×s	504.75	Joback Method
dvisc	0.0001944	Pa×s	566.83	Joback Method
dvisc	0.0001176	Pa×s	628.91	Joback Method
dvisc	0.0000779	Pa×s	691.00	Joback Method
dvisc	0.0000552	Pa×s	753.08	Joback Method
dvisc	0.0000412	Pa×s	815.16	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R58507&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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