Benzene, 1-methoxy-2,4-bis(1-methyl-1-phenylethyl)-

Inchi: InChI=1S/C25H28O/c1-24(2,19-12-8-6-9-13-19)21-16-17-23(26-5)22(18-21)25(3,4)20-14

InchiKey: IKXRTMLXIDVXBX-UHFFFAOYSA-N

Formula: C25H28O

SMILES: COc1ccc(C(C)(C)c2ccccc2)cc1C(C)(C)c1ccccc1

Mol. weight [g/mol]: 344.49

CAS: 1262783-05-0

Physical Properties

Property code	Value	Unit	Source
gf	378.27	kJ/mol	Joback Method
hf	-22.40	kJ/mol	Joback Method
hfus	28.21	kJ/mol	Joback Method
hvap	79.21	kJ/mol	Joback Method
log10ws	-6.81		Crippen Method
logp	6.347		Crippen Method
mcvol	297.700	ml/mol	McGowan Method
pc	1441.35	kPa	Joback Method
rinpol	2459.20		NIST Webbook
tb	877.36	K	Joback Method
tc	1131.62	K	Joback Method
tf	502.88	K	Joback Method
vc	1.107	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	919.02	J/mol×K	877.36	Joback Method
cpg	937.62	J/mol×K	919.74	Joback Method
cpg	954.72	J/mol×K	962.11	Joback Method
cpg	970.49	J/mol×K	1004.49	Joback Method
cpg	985.13	J/mol×K	1046.87	Joback Method
cpg	998.81	J/mol×K	1089.24	Joback Method
cpg	1011.72	J/mol×K	1131.62	Joback Method
dvisc	0.0004099	Pa×s	502.88	Joback Method

dvisc	0.0002001	Pa×s	565.29	Joback Method
dvisc	0.0001127	Pa×s	627.71	Joback Method
dvisc	0.0000704	Pa×s	690.12	Joback Method
dvisc	0.0000475	Pa×s	752.53	Joback Method
dvisc	0.0000341	Pa×s	814.95	Joback Method
dvisc	0.0000256	Pa×s	877.36	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1262783050&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume