Anisole, p(«alpha»-chloro-p-methylbenzyl)-

Inchi: InChI=1S/C15H15ClO/c1-11-3-5-12(6-4-11)15(16)13-7-9-14(17-2)10-8-13/h3-10,15H,1-2
InchiKey: DTTHPHQAGIFHQE-UHFFFAOYSA-N
Formula: C15H15ClO
SMILES: COc1ccc(C(Cl)c2ccc(C)cc2)cc1
Mol. weight [g/mol]: 246.73
CAS: 7525-21-5

Physical Properties

Property code	Value	Unit	Source
gf	161.61	kJ/mol	Joback Method
hf	-56.05	kJ/mol	Joback Method
hfus	23.77	kJ/mol	Joback Method
hvap	61.27	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	4.332		Crippen Method
mcvol	192.800	ml/mol	McGowan Method
pc	2329.27	kPa	Joback Method
tb	665.33	K	Joback Method
tc	906.47	K	Joback Method
tf	373.84	K	Joback Method
vc	0.721	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.37	J/mol×K	665.33	Joback Method
cpg	491.68	J/mol×K	705.52	Joback Method
cpg	506.79	J/mol×K	745.71	Joback Method
cpg	520.73	J/mol×K	785.90	Joback Method
cpg	533.55	J/mol×K	826.09	Joback Method
cpg	545.31	J/mol×K	866.28	Joback Method
cpg	556.06	J/mol×K	906.47	Joback Method
dvisc	0.0012143	Pa×s	373.84	Joback Method
dvisc	0.0006526	Pa×s	422.42	Joback Method

dvisc	0.0003987	Pa×s	471.00	Joback Method
dvisc	0.0002671	Pa×s	519.59	Joback Method
dvisc	0.0001916	Pa×s	568.17	Joback Method
dvisc	0.0001448	Pa×s	616.75	Joback Method
dvisc	0.0001140	Pa×s	665.33	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7525215&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume