Methane, chlorobis(p-methoxyphenyl)phenyl-

Other names: Methane, bis(p-methoxyphenyl)chlorophenyl
1,1'-(chlorophenylmethylene)bis[4-methoxybenzene]
Inchi: InChI=1S/C21H19ClO2/c1-23-19-12-8-17(9-13-19)21(22,16-6-4-3-5-7-16)18-10-14-20(24
InchiKey: JBWYRBLDOOOJEU-UHFFFAOYSA-N
Formula: C21H19ClO2
SMILES: COc1ccc(C(Cl)(c2ccccc2)c2ccc(OC)cc2)cc1
Mol. weight [g/mol]: 338.83
CAS: 40615-36-9

Physical Properties

Property code	Value	Unit	Source
gf	224.82	kJ/mol	Joback Method
hf	-79.05	kJ/mol	Joback Method
hfus	30.65	kJ/mol	Joback Method
hvap	78.40	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.234		Crippen Method
mcvol	259.450	ml/mol	McGowan Method
pc	1853.11	kPa	Joback Method
tb	848.92	K	Joback Method
tc	1108.25	K	Joback Method
tf	507.53	K	Joback Method
vc	0.962	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	739.58	J/mol×K	848.92	Joback Method
cpg	755.24	J/mol×K	892.14	Joback Method
cpg	769.36	J/mol×K	935.36	Joback Method
cpg	782.03	J/mol×K	978.58	Joback Method
cpg	793.39	J/mol×K	1021.81	Joback Method
cpg	803.54	J/mol×K	1065.03	Joback Method
cpg	812.60	J/mol×K	1108.25	Joback Method

dvisc	0.0003845	Pa×s	507.53	Joback Method
dvisc	0.0002144	Pa×s	564.43	Joback Method
dvisc	0.0001330	Pa×s	621.33	Joback Method
dvisc	0.0000894	Pa×s	678.23	Joback Method
dvisc	0.0000639	Pa×s	735.12	Joback Method
dvisc	0.0000479	Pa×s	792.02	Joback Method
dvisc	0.0000374	Pa×s	848.92	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C40615369&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume