(p-Methoxyphenyl)phenylmethyl chloride

Inchi: InChI=1S/C14H13ClO/c1-16-13-9-7-12(8-10-13)14(15)11-5-3-2-4-6-11/h2-10,14H,1H3
InchiKey: FKRXYCHXGNKYPV-UHFFFAOYSA-N
Formula: C14H13ClO
SMILES: COc1ccc(C(Cl)c2ccccc2)cc1
Mol. weight [g/mol]: 232.71
CAS: 6731-11-9

Physical Properties

Property code	Value	Unit	Source
gf	162.82	kJ/mol	Joback Method
hf	-23.94	kJ/mol	Joback Method
hfus	21.57	kJ/mol	Joback Method
hvap	58.38	kJ/mol	Joback Method
log10ws	-4.30		Crippen Method
logp	4.023		Crippen Method
mcvol	178.710	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
tb	637.47	K	Joback Method
tc	882.99	K	Joback Method
tf	350.05	K	Joback Method
vc	0.664	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.52	J/mol×K	637.47	Joback Method
cpg	493.85	J/mol×K	842.07	Joback Method
cpg	482.45	J/mol×K	801.15	Joback Method
cpg	469.97	J/mol×K	760.23	Joback Method
cpg	456.36	J/mol×K	719.31	Joback Method
cpg	441.56	J/mol×K	678.39	Joback Method
cpg	504.24	J/mol×K	882.99	Joback Method
dvisc	0.0001275	Pa×s	637.47	Joback Method
dvisc	0.0001640	Pa×s	589.57	Joback Method

dvisc	0.0002206	Pa×s	541.66	Joback Method
dvisc	0.0003143	Pa×s	493.76	Joback Method
dvisc	0.0004830	Pa×s	445.86	Joback Method
dvisc	0.0008234	Pa×s	397.95	Joback Method
dvisc	0.0016242	Pa×s	350.05	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=C6731119&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume