CHLORO(P-METHOXYPHENYL)DIPHENYLMETHA

Other names: 4-Methoxytriphenylchloromethane
4-Methoxytrityl chloride
4-Monomethoxytrityl chloride
Benzene, 1-(chlorodiphenylmethyl)-4-methoxy-
p-(chlorodiphenylmethyl)anisole
Inchi: InChI=1S/C20H17ClO/c1-22-19-14-12-18(13-15-19)20(21,16-8-4-2-5-9-16)17-10-6-3-7-1
InchiKey: OBOHMJWDFPBPKD-UHFFFAOYSA-N
Formula: C20H17ClO
SMILES: COc1ccc(C(Cl)(c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]: 308.81

Physical Properties

Property code	Value	Unit	Source
hf	111.80	kJ/mol	Cheméo Relay (1.0)
hfus	27.26	kJ/mol	Joback Method
hvap	102.49	kJ/mol	Cheméo Relay (1.0)
ie	7.91	eV	Cheméo Relay (1.0)
log10ws	-6.03		Cheméo Relay (1.0)
logp	5.226		Crippen Method
mcvol	239.490	ml/mol	McGowan Method
pc	2075.54	kPa	Joback Method
tb	664.61	K	Cheméo Relay (1.0)
tc	945.08	K	Cheméo Relay (1.0)
tf	372.16	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.15	J/mol×K	798.64	Joback Method
cpg	736.39	J/mol×K	1067.77	Joback Method
cpg	726.29	J/mol×K	1022.91	Joback Method
cpg	715.23	J/mol×K	978.06	Joback Method
cpg	703.05	J/mol×K	933.20	Joback Method
cpg	689.59	J/mol×K	888.35	Joback Method

cpg	674.68	J/mol×K	843.49	Joback Method
dvisc	0.0001427	Pa×s	630.08	Joback Method
dvisc	0.0000563	Pa×s	798.64	Joback Method
dvisc	0.0000733	Pa×s	742.45	Joback Method
dvisc	0.0000995	Pa×s	686.26	Joback Method
dvisc	0.0007138	Pa×s	461.51	Joback Method
dvisc	0.0002197	Pa×s	573.89	Joback Method
dvisc	0.0003715	Pa×s	517.70	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C14470281&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
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

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.