

Methane, (p-bromophenyl)-(p-chlorophenyl)-

Inchi:	InChI=1S/C13H10BrCl/c14-12-5-1-10(2-6-12)9-11-3-7-13(15)8-4-11/h1-8H,9H2
InchiKey:	OBOCHBYNINNMQI-UHFFFAOYSA-N
Formula:	C13H10BrCl
SMILES:	Clc1ccc(Cc2ccc(Br)cc2)cc1
Mol. weight [g/mol]:	281.57
CAS:	30203-84-0

Physical Properties

Property code	Value	Unit	Source
gf	266.53	kJ/mol	Joback Method
hf	149.06	kJ/mol	Joback Method
hfus	26.21	kJ/mol	Joback Method
hvap	61.23	kJ/mol	Joback Method
log10ws	-5.42		Crippen Method
logp	4.693		Crippen Method
mcvol	176.250	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
tb	663.75	K	Joback Method
tc	926.61	K	Joback Method
tf	403.87	K	Joback Method
vc	0.658	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	386.31	J/molxK	663.75	Joback Method
cpg	442.85	J/molxK	882.80	Joback Method
cpg	433.50	J/molxK	838.99	Joback Method
cpg	423.27	J/molxK	795.18	Joback Method
cpg	412.06	J/molxK	751.37	Joback Method
cpg	399.77	J/molxK	707.56	Joback Method
cpg	451.40	J/molxK	926.61	Joback Method
dvisc	0.0001777	Paxs	663.75	Joback Method
dvisc	0.0002183	Paxs	620.44	Joback Method

dvisc	0.0002765	Paxs	577.12	Joback Method
dvisc	0.0003640	Paxs	533.81	Joback Method
dvisc	0.0005030	Paxs	490.50	Joback Method
dvisc	0.0007400	Paxs	447.18	Joback Method
dvisc	0.0011826	Paxs	403.87	Joback Method

Sources

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=C30203840&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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