Ethanone, 2-bromo-1,2-diphenyl-

Other names:	2-Bromo-2-phenylacetophenone
	Desyl bromide
	2-Bromo-1,2-diphenylethan-1-one
Inchi:	InChI=1S/C14H11BrO/c15-13(11-7-3-1-4-8-11)14(16)12-9-5-2-6-10-12/h1-10,13H
InchiKey:	ZFFBIQMNKOJDJE-UHFFFAOYSA-N
Formula:	C14H11BrO
SMILES:	O=C(c1ccccc1)C(Br)c1ccccc1
Mol. weight [g/mol]:	275.14
CAS:	1484-50-0

Physical Properties

Property code	Value	Unit	Source
gf	174.78	kJ/mol	Joback Method
hf	49.24	kJ/mol	Joback Method
hfus	23.46	kJ/mol	Joback Method
hvap	64.10	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.005		Crippen Method
mcvol	179.670	ml/mol	McGowan Method
pc	3228.31	kPa	Joback Method
tb	692.67	K	Joback Method
tc	956.37	K	Joback Method
tf	395.11	K	Joback Method
vc	0.665	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.96	J/mol×K	692.67	Joback Method
cpg	442.13	J/mol×K	736.62	Joback Method
cpg	454.97	J/mol×K	780.57	Joback Method
cpg	466.59	J/mol×K	824.52	Joback Method
cpg	477.11	J/mol×K	868.47	Joback Method
cpg	486.64	J/mol×K	912.42	Joback Method

cpg	495.31	J/mol×K	956.37	Joback Method
dvisc	0.0019288	Pa×s	395.11	Joback Method
dvisc	0.0010179	Pa×s	444.70	Joback Method
dvisc	0.0006107	Pa×s	494.30	Joback Method
dvisc	0.0004022	Pa×s	543.89	Joback Method
dvisc	0.0002840	Pa×s	593.48	Joback Method
dvisc	0.0002116	Pa×s	643.08	Joback Method
dvisc	0.0001645	Pa×s	692.67	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1484500&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