

Ethyl 2-(4-bromophenyl)acetate

Other names:	Benzeneacetic acid, 4-bromo-, ethyl ester Ethyl (4-bromophenyl)acetate 4-Bromophenylacetic acid ethyl ester
Inchi:	InChI=1S/C10H11BrO2/c1-2-13-10(12)7-8-3-5-9(11)6-4-8/h3-6H,2,7H2,1H3
InchiKey:	ZFDCWHPNBWPPHG-UHFFFAOYSA-N
Formula:	C10H11BrO2
SMILES:	CCOC(=O)Cc1ccc(Br)cc1
Mol. weight [g/mol]:	243.10
CAS:	14062-25-0

Physical Properties

Property code	Value	Unit	Source
gf	-83.50	kJ/mol	Joback Method
hf	-243.14	kJ/mol	Joback Method
hfus	23.38	kJ/mol	Joback Method
hvap	56.38	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.555		Crippen Method
mcvol	152.940	ml/mol	McGowan Method
pc	3276.53	kPa	Joback Method
rinpol	1583.00		NIST Webbook
tb	602.31	K	Joback Method
tc	829.46	K	Joback Method
tf	373.36	K	Joback Method
vc	0.574	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	337.08	J/molxK	602.31	Joback Method
cpg	349.35	J/molxK	640.17	Joback Method
cpg	360.83	J/molxK	678.03	Joback Method
cpg	371.55	J/molxK	715.89	Joback Method
cpg	381.54	J/molxK	753.74	Joback Method

cpg	390.81	J/molxK	791.60	Joback Method
cpg	399.40	J/molxK	829.46	Joback Method
dvisc	0.0014609	Paxs	373.36	Joback Method
dvisc	0.0009142	Paxs	411.52	Joback Method
dvisc	0.0006195	Paxs	449.68	Joback Method
dvisc	0.0004461	Paxs	487.83	Joback Method
dvisc	0.0003370	Paxs	525.99	Joback Method
dvisc	0.0002644	Paxs	564.15	Joback Method
dvisc	0.0002139	Paxs	602.31	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=C14062250&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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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