

6-Bromohexanoic acid, 4-biphenyl ester

Inchi: InChI=1S/C18H19BrO2/c19-14-6-2-5-9-18(20)21-17-12-10-16(11-13-17)15-7-3-1-4-8-15
InchiKey: DCBYCZLDASRQOO-UHFFFAOYSA-N
Formula: C18H19BrO2
SMILES: O=C(CCCCCBr)Oc1ccc(-c2ccccc2)cc1
Mol. weight [g/mol]: 347.25

Physical Properties

Property code	Value	Unit	Source
gf	96.27	kJ/mol	Joback Method
hf	-171.73	kJ/mol	Joback Method
hfus	38.14	kJ/mol	Joback Method
hvap	76.47	kJ/mol	Joback Method
log10ws	-6.49		Crippen Method
logp	5.214		Crippen Method
mcvol	241.900	ml/mol	McGowan Method
pc	2096.50	kPa	Joback Method
rinpol	2766.00		NIST Webbook
rinpol	2766.00		NIST Webbook
tb	812.03	K	Joback Method
tc	1047.08	K	Joback Method
tf	489.94	K	Joback Method
vc	0.913	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	664.50	J/molxK	812.03	Joback Method
cpg	679.10	J/molxK	851.21	Joback Method
cpg	692.53	J/molxK	890.38	Joback Method
cpg	704.85	J/molxK	929.56	Joback Method
cpg	716.15	J/molxK	968.73	Joback Method
cpg	726.48	J/molxK	1007.91	Joback Method
cpg	735.92	J/molxK	1047.08	Joback Method
dvisc	0.0007136	Paxs	489.94	Joback Method

dvisc	0.0004163	Paxs	543.62	Joback Method
dvisc	0.0002675	Paxs	597.30	Joback Method
dvisc	0.0001850	Paxs	650.99	Joback Method
dvisc	0.0001353	Paxs	704.67	Joback Method
dvisc	0.0001034	Paxs	758.35	Joback Method
dvisc	0.0000819	Paxs	812.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U354722&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/41-786-4/6-Bromohexanoic-acid-4-biphenyl-ester.pdf>

Generated by Cheméo on 2024-04-24 03:39:12.599296052 +0000 UTC m=+16219201.519873374.

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