Bromacetamide, N-decyl-

Inchi: InChI=1S/C12H24BrNO/c1-2-3-4-5-6-7-8-9-10-14-12(15)11-13/h2-11H2,1H3,(H,14,15)
InchiKey: RZTGBAJAVREPOB-UHFFFAOYSA-N
Formula: C12H24BrNO
SMILES: CCCCCCCCCCNC(=O)CBr
Mol. weight [g/mol]: 278.23

Physical Properties

Property code	Value	Unit	Source
gf	24.95	kJ/mol	Joback Method
hf	-323.79	kJ/mol	Joback Method
hfus	38.82	kJ/mol	Joback Method
hvap	61.92	kJ/mol	Joback Method
log10ws	-4.24		Crippen Method
logp	3.638		Crippen Method
mcvol	208.990	ml/mol	McGowan Method
pc	2019.95	kPa	Joback Method
rinpol	1915.00		NIST Webbook
rinpol	1915.00		NIST Webbook
tb	644.16	K	Joback Method
tc	828.65	K	Joback Method
tf	387.39	K	Joback Method
vc	0.810	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.43	J/mol×K	644.16	Joback Method
cpg	555.34	J/mol×K	674.91	Joback Method
cpg	569.52	J/mol×K	705.66	Joback Method
cpg	582.98	J/mol×K	736.40	Joback Method
cpg	595.76	J/mol×K	767.15	Joback Method
cpg	607.88	J/mol×K	797.90	Joback Method
cpg	619.39	J/mol×K	828.65	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407079&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
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