

9H-Fluorene, 2,7-dibromo-

Other names:	Fluorene, 2,7-dibromo- 2,7-Dibromofluorene
Inchi:	InChI=1S/C13H8Br2/c14-10-1-3-12-8(6-10)5-9-7-11(15)2-4-13(9)12/h1-4,6-7H,5H2
InchiKey:	AVXFJPFWSWLMKSG-UHFFFAOYSA-N
Formula:	C13H8Br2
SMILES:	<chem>Brc1ccc2c(c1)Cc1cc(Br)ccc1-2</chem>
Mol. weight [g/mol]:	324.01
CAS:	16433-88-8

Physical Properties

Property code	Value	Unit	Source
gf	366.18	kJ/mol	Joback Method
hf	273.65	kJ/mol	Joback Method
hfus	27.79	kJ/mol	Joback Method
hvap	64.48	kJ/mol	Joback Method
log10ws	-6.75		Crippen Method
logp	4.783		Crippen Method
mvol	170.650	ml/mol	McGowan Method
pc	3843.54	kPa	Joback Method
tb	705.31	K	Joback Method
tc	979.40	K	Joback Method
tf	488.01	K	Joback Method
vc	0.645	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.06	J/molxK	705.31	Joback Method
cpg	416.07	J/molxK	933.72	Joback Method
cpg	407.53	J/molxK	888.03	Joback Method
cpg	398.76	J/molxK	842.35	Joback Method
cpg	389.56	J/molxK	796.67	Joback Method
cpg	379.72	J/molxK	750.99	Joback Method
cpg	424.58	J/molxK	979.40	Joback Method

dvisc	0.0007222	Paxs	705.31	Joback Method
dvisc	0.0007962	Paxs	669.09	Joback Method
dvisc	0.0008876	Paxs	632.88	Joback Method
dvisc	0.0010027	Paxs	596.66	Joback Method
dvisc	0.0011507	Paxs	560.44	Joback Method
dvisc	0.0013459	Paxs	524.23	Joback Method
dvisc	0.0016112	Paxs	488.01	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C16433888&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
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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