Ethene, 1,1-dibromo-2,2-difluoro-

Other names: Ethene, 1,1-dibromo-2,2-difluoro-
1,1-dibromo-2,2-difluoroethylene
Inchi: InChI=1S/C2Br2F2/c3-1(4)2(5)6
InchiKey: VTFPVQZQUFXLFH-UHFFFAOYSA-N
Formula: C2Br2F2
SMILES: FC(F)=C(Br)Br
Mol. weight [g/mol]: 221.83

Physical Properties

Property code	Value	Unit	Source
af	0.3095		Cheméo Relay (1.0)
gf	-331.90	kJ/mol	Joback Method
hf	-267.21	kJ/mol	Cheméo Relay (1.0)
hfus	15.25	kJ/mol	Joback Method
ie	9.51	eV	Cheméo Relay (1.0)
logp	2.842		Crippen Method
mcvol	73.280	ml/mol	McGowan Method
pc	5917.16	kPa	Joback Method
tb	341.50 ± 0.50	K	NIST Webbook
tc	507.63	K	Cheméo Relay (1.0)
tf	136.90	K	Cheméo Relay (1.0)
vc	0.263	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	92.68	J/mol×K	379.94	Joback Method
cpg	96.26	J/mol×K	414.27	Joback Method
cpg	99.43	J/mol×K	448.60	Joback Method
cpg	102.23	J/mol×K	482.93	Joback Method
cpg	104.70	J/mol×K	517.25	Joback Method
cpg	106.86	J/mol×K	551.58	Joback Method
cpg	108.77	J/mol×K	585.91	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C430853&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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