

STIBINE, TRIPHENYL-

Other names:	Trifenylstibin Triphenylantimony Triphenylstibane Triphenylstibine
Inchi:	InChI=1S/3C6H5.Sb/c3*1-2-4-6-5-3-1;/h3*1-5H;
InchiKey:	HVYVMSPIJIWUNA-UHFFFAOYSA-N
Formula:	C18H15Sb
SMILES:	c1cc[c]([Sb]([c]2ccccc2)[c]2ccccc2)cc1
Mol. weight [g/mol]:	353.08

Physical Properties

Property code	Value	Unit	Source
af	0.4449		Cheméo Relay (1.0)
affp	845.50	kJ/mol	NIST Webbook
basg	813.10	kJ/mol	NIST Webbook
chs	-10010.00 ± 17.00	kJ/mol	NIST Webbook
gf	368.90	kJ/mol	Cheméo Relay (1.0, beta)
hf	435.00 ± 19.00	kJ/mol	NIST Webbook
hfs	329.00 ± 17.00	kJ/mol	NIST Webbook
hsub	106.30 ± 8.40	kJ/mol	NIST Webbook
hsub	106.30 ± 8.40	kJ/mol	NIST Webbook
hsub	106.30 ± 8.40	kJ/mol	NIST Webbook
hvap	83.42	kJ/mol	Cheméo Relay (1.0)
ie	8.08 ± 0.05	eV	NIST Webbook
ie	7.30 ± 0.10	eV	NIST Webbook
ie	7.80 ± 0.01	eV	NIST Webbook
ie	7.26 ± 0.05	eV	NIST Webbook
log10ws	-6.29		Cheméo Relay (1.0)
pc	2808.64	kPa	Cheméo Relay (1.0, beta)
tb	645.93	K	Cheméo Relay (1.0)
tc	916.25	K	Cheméo Relay (1.0)
tf	321.15 ± 1.50	K	NIST Webbook
tf	325.15 ± 1.50	K	NIST Webbook
tf	328.20 ± 0.50	K	NIST Webbook
vc	0.767	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	83.30	kJ/mol	528.00	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C603361&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
chs:	Standard solid enthalpy of combustion
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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