

# Bismuthine, triphenyl-

<b>Other names:</b>	Bismuth triphenyl Triphenylbismuth Triphenylbismuthine (C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> Bi Aerotex Trifenylbismutin
<b>Inchi:</b>	InChI=1S/3C <sub>6</sub> H <sub>5</sub> .Bi/c3*1-2-4-6-5-3-1;/h3*1-5H;
<b>InchiKey:</b>	ZHXAZZQXWJJBHA-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>18</sub> H <sub>15</sub> Bi
<b>SMILES:</b>	c1ccc([Bi](c2ccccc2)c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	440.29
<b>CAS:</b>	603-33-8

## Physical Properties

Property code	Value	Unit	Source
chs	-9971.70 ± 7.50	kJ/mol	NIST Webbook
chs	-10003.50 ± 5.00	kJ/mol	NIST Webbook
chs	-9983.00 ± 17.00	kJ/mol	NIST Webbook
hf	569.00 ± 12.00	kJ/mol	NIST Webbook
hf	601.00 ± 10.00	kJ/mol	NIST Webbook
hf	580.00 ± 19.00	kJ/mol	NIST Webbook
hfs	469.00 ± 17.00	kJ/mol	NIST Webbook
hfs	489.60 ± 5.60	kJ/mol	NIST Webbook
hfs	457.80 ± 7.90	kJ/mol	NIST Webbook
hsub	110.90 ± 8.40	kJ/mol	NIST Webbook
hsub	110.90 ± 8.40	kJ/mol	NIST Webbook
ie	7.30 ± 0.10	eV	NIST Webbook
ie	7.45 ± 0.05	eV	NIST Webbook
tf	350.15 ± 1.00	K	NIST Webbook
tf	351.50 ± 0.50	K	NIST Webbook
tf	346.65 ± 1.00	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	330.20	J/mol×K	298.15	NIST Webbook
cps	328.40	J/mol×K	298.50	NIST Webbook

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C603338&Units=SI>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cps:</b>	Solid phase heat capacity
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>ie:</b>	Ionization energy
<b>tf:</b>	Normal melting (fusion) point

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