

Plumbane, tetraphenyl-

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|-----------------------------|---|
| Other names: | Tetraphenyllead Tetraphenylplumbane Lead, tetraphenyl-, |
| Inchi: | InChI=1S/4C6H5.Pb/c4*1-2-4-6-5-3-1;/h4*1-5H; |
| InchiKey: | WBJSMHDYLOJVKC-UHFFFAOYSA-N |
| Formula: | C24H20Pb |
| SMILES: | c1ccc([Pb](c2ccccc2)(c2ccccc2)c2ccccc2)cc1 |
| Mol. weight [g/mol]: | 515.60 |
| CAS: | 595-89-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-------------------|--------|--------------|
| chs | -13036.00 ± 15.00 | kJ/mol | NIST Webbook |
| hf | 674.00 ± 15.00 | kJ/mol | NIST Webbook |
| hfs | 515.00 ± 15.00 | kJ/mol | NIST Webbook |
| hsub | 194.60 ± 6.30 | kJ/mol | NIST Webbook |
| hsub | 159.00 ± 1.00 | kJ/mol | NIST Webbook |
| hsub | 159.00 ± 1.00 | kJ/mol | NIST Webbook |
| hsub | 82.80 | kJ/mol | NIST Webbook |
| ie | 8.00 | eV | NIST Webbook |
| ie | 8.95 | eV | NIST Webbook |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|--------|-----------------|--------------|
| hsubt | 151.00 | kJ/mol | 446.00 | NIST Webbook |

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C595891&Units=SI>

Legend

| | |
|---------------|--|
| chs: | Standard solid enthalpy of combustion |
| hf: | Enthalpy of formation at standard conditions |
| hfs: | Solid phase enthalpy of formation at standard conditions |
| hsub: | Enthalpy of sublimation at standard conditions |
| hsubt: | Enthalpy of sublimation at a given temperature |
| ie: | Ionization energy |

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