

Aluminum, triethyl-

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|-----------------------------|---|
| Other names: | Triethylaluminum TEA Triethylaluminium UN 1102 |
| Inchi: | InChI=1S/3C2H5.Al/c3*1-2;/h3*1H2,2H3; |
| InchiKey: | VOITXYVAKOUIBA-UHFFFAOYSA-N |
| Formula: | C6H15Al |
| SMILES: | CC[AlH3](CC)CC |
| Mol. weight [g/mol]: | 114.16 |
| CAS: | 97-93-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-----------------|---------|--------------|
| chl | -5125.40 ± 8.80 | kJ/mol | NIST Webbook |
| chl | -5105.70 ± 2.90 | kJ/mol | NIST Webbook |
| hf | -100.00 ± 5.10 | kJ/mol | NIST Webbook |
| hf | -98.90 ± 6.80 | kJ/mol | NIST Webbook |
| hf | -163.70 ± 3.70 | kJ/mol | NIST Webbook |
| hf | -144.00 ± 9.10 | kJ/mol | NIST Webbook |
| hf | -114.10 ± 5.50 | kJ/mol | NIST Webbook |
| hfl | -173.20 ± 4.60 | kJ/mol | NIST Webbook |
| hfl | -187.30 ± 5.10 | kJ/mol | NIST Webbook |
| hfl | -236.90 ± 3.10 | kJ/mol | NIST Webbook |
| hfl | -217.20 ± 8.90 | kJ/mol | NIST Webbook |
| hfl | -172.10 ± 6.50 | kJ/mol | NIST Webbook |
| hvap | 73.20 ± 2.10 | kJ/mol | NIST Webbook |
| sl | 308.00 | J/molxK | NIST Webbook |
| sl | 307.80 | J/molxK | NIST Webbook |
| tb | 466.00 ± 1.00 | K | NIST Webbook |
| tt | 225.00 ± 0.02 | K | NIST Webbook |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-------|------|-----------------|--------|
|---------------|-------|------|-----------------|--------|

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|-------|--------|---------|--------|--------------|
| cpl | 239.00 | J/mol×K | 298.15 | NIST Webbook |
| cpl | 239.00 | J/mol×K | 298.15 | NIST Webbook |
| hfust | 10.60 | kJ/mol | 225.00 | NIST Webbook |
| hfust | 10.60 | kJ/mol | 225.00 | NIST Webbook |
| hfust | 10.60 | kJ/mol | 225.00 | NIST Webbook |
| hfust | 10.60 | kJ/mol | 225.00 | NIST Webbook |
| sfust | 47.11 | J/mol×K | 225.00 | NIST Webbook |
| sfust | 47.11 | J/mol×K | 225.00 | NIST Webbook |

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C97938&Units=SI>

Legend

| | |
|---------------|---|
| chl: | Standard liquid enthalpy of combustion |
| cpl: | Liquid phase heat capacity |
| hf: | Enthalpy of formation at standard conditions |
| hfl: | Liquid phase enthalpy of formation at standard conditions |
| hfust: | Enthalpy of fusion at a given temperature |
| h vap: | Enthalpy of vaporization at standard conditions |
| sfust: | Entropy of fusion at a given temperature |
| sl: | Liquid phase molar entropy at standard conditions |
| tb: | Normal Boiling Point Temperature |
| tt: | Triple Point Temperature |

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