

Supplementary Material (ESI) for Dalton Transactions
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ReO3Et

| Atom | X | Y | Z (Angstrom) |
|------|-----------|-----------|--------------|
| 1.Re | 0.003607 | 0.000689 | -0.000052 |
| 2.O | 1.728069 | -0.003641 | -0.035517 |
| 3.O | -0.665475 | 1.590324 | 0.009013 |
| 4.O | -0.697716 | -1.019075 | -1.201140 |
| 5.C | -0.530055 | -0.851136 | 1.840883 |
| 6.C | -0.000100 | -0.091981 | 3.062488 |
| 7.H | -0.381443 | 0.936800 | 3.095743 |
| 8.H | 1.096784 | -0.051479 | 3.068698 |
| 9.H | -0.323673 | -0.600987 | 3.982838 |
| 10.H | -0.153951 | -1.886512 | 1.801869 |
| 11.H | -1.631188 | -0.899565 | 1.829459 |

Bond Energy LDA -2.65092600 a.u.
Bond Energy LDA -72.13539624 eV
+ GGA-X -2.33493969 a.u.
+ GGA-X -63.53696760 eV
+ GGA-XC -2.47270385 a.u.
+ GGA-XC -67.28572284 eV